

Publications Related to the RoboCup Soccer Simulation League

Compiled by Peter Stone, based on a list started by Gal Kaminka

August 27, 2013

Abstract

This is a partial list of publications that have resulted, directly or indirectly, from the RoboCup Simulation leagues. It was compiled by requesting contributions from subscribers to the simulation league mailing lists, last in July 2013. There are certainly many other publications that have not been included in this list. If you know of any, please send them to Professor Peter Stone at pstone@cs.utexas.edu.

Books

1. Oliver Obst. *Controlling Physical Multiagent Teams: Getting League- Independent Results from RoboCup Soccer*. Number 304 in DISKI – Dissertations in Artificial Intelligence. Aka / IOS Press, 2007. ISBN 978-1-58603-705-5.
2. Hans-Dieter Burkhard and Hans-Arthur Marsiske. *Endspiel 2050 - Wie Roboter Fußball spielen lernen*. Heise, 2003.
3. Markus Hannebauer, Jan Wendler, and Enrico Pagello, editors. *Balancing Reactivity and Social Deliberation in MAS – From RoboCup to Real-World Applications*, volume 2103 of *LNAI*. Springer Verlag, 2001.
4. Peter Stone. *Layered Learning in Multiagent Systems: A Winning Approach to Robotic Soccer*. MIT Press, 2000.

Journal Articles

2013

5. P.H. Abreu, D.C. Silva, J. Mendes-Moreira, L.P. Reis, and J. Garganta. Using multivariate adaptive regression splines in the construction of simulated soccer team’s behavior models. *International Journal of Computational Intelligence Systems*, 6(5):893–910, 2013.
6. F. Almeida, P.H. Abreu, N. Lau, and L.P. Reis. An automatic approach to extract goal plans from soccer simulated matches. *Soft Computing*, 17(5):835–848, 2013.

2012

7. P. Abreu, J. Moreira, I. Costa, D. Castelo, L. Reis, and J. Garganta. Human versus virtual robotics soccer: A technical analysis. *European Journal of Sport Science*, 12(1):26–35, 2012.
8. P.H. Abreu, J. Moura, D.C. Silva, L.P. Reis, and J. Garganta. Performance analysis in soccer: A cartesian coordinates based approach using robocup data. *Soft Computing*, 16(1):47–61, 2012.

2011

9. L. Mota, L.P. Reis, and N. Lau. Multi-robot coordination using setplays in the middle-size and simulation leagues. *Mechatronics*, 21(2):434–444, 2011.
10. Nuno Lau, Luis Seabra Lopes, Gustavo Corrente, Nelson Filipe, and Ricardo Sequeira. Robot team coordination using dynamic role and positioning assignment and role based setplays. *Mechatronics*, 21(2):445–454, 2011. *Special Issue on Advances in intelligent robot design for the Robocup Middle Size League*.
11. Harukazu Igarashi, Koji Nakamura, and Seiji Ishihara. Learning of soccer player agents using a policy gradient method: Coordination between kicker and receiver during free kicks. *International Journal of Artificial Intelligence and Expert Systems*, 2(1):123–135, April 2011.

2010

12. Fernando Fernández, Javier García, and Manuela Veloso. Probabilistic policy reuse for inter-task transfer learning. *Robotics and Autonomous Systems*, 58(7):866–871, 2010.
13. David L. Chen, Joohyun Kim, and Raymond J. Mooney. Training a multilingual sportscaster: Using perceptual context to learn language. *Journal of Artificial Intelligence Research*, 37:397–435, 2010.
14. Rodrigo da Silva Guerra, Hitoshi Aonuma, Koh Hosoda, and Minoru Asada. Using micro-robots as tools for interdisciplinary studies of insect social interaction. *Journal of Robotics and Mechatronics*, 22(4), August 2010.
15. Rodrigo da Silva Guerra, Hitoshi Aonuma, Koh Hosoda, and Minoru Asada. Semi-automatic behavior analysis using robot/insect mixed society and video tracking. *Journal of Neuroscience Methods*, 2010.
16. Shimon Whiteson, Matthew E. Taylor, and Peter Stone. Critical factors in the empirical performance of temporal difference and evolutionary methods for reinforcement learning. *Journal of Autonomous Agents and Multi-Agent Systems*, 21(1):1–27, 2010.

2009

17. Matthew E. Taylor and Peter Stone. Transfer learning for reinforcement learning domains: A survey. *Journal of Machine Learning Research*, 10(1):1633–1685, 2009.
18. Martin Riedmiller, Thomas Gabel, Roland Hafner, and Sascha Lange. Reinforcement Learning for Robot Soccer. *Autonomous Robots*, 27(1):55–74, 2009.

2007

19. Matthew E. Taylor, Peter Stone, and Yaxin Liu. Transfer learning via inter-task mappings for temporal difference learning. *Journal of Machine Learning Research*, 8(1):2125–2167, 2007.
20. Shimon Whiteson, Matthew E. Taylor, and Peter Stone. Empirical studies in action selection for reinforcement learning. *Adaptive Behavior*, 15(1), 2007.
21. Reza Zafarani and Mohammad Reza Yazdchi. A novel action selection architecture in soccer simulation environment using neuro-fuzzy and bidirectional neural networks. *International Journal of Advanced Robotic Systems*, 4(1):93–101, March 2007.

2006

22. Frieder Stolzenburg, Jan Murray, and Karsten Sturm. Multiagent matching algorithms with and without coach. *Journal of Decision Systems*, 15(2-3):215–240, 2006. Special issue on *Decision Support Systems*. Guest editors: Fatima C. C. Dargam and Pascale Zarate.
23. Jan Murray, Frieder Stolzenburg, and Toshiaki Arai. Hybrid state machines with timed synchronization for multi-robot system specification. *KI*, 3/06:45–50, 2006.
24. M. Riedmiller, T. Gabel, R. Hafner, S. Lange, and M. Lauer. Die Brainstormers: Entwurfsprinzipien lernfähiger autonomer Roboter. *Informatik-Spektrum*, 29(3):175–190, 2006.
25. T. Gabel and M. Riedmiller. Learning a Partial Behavior for a Competitive Robotic Soccer Agent. *KI*, 20(2):18–23, 2006.
26. F. Reinaldo, M. Siqueira, R. Camacho, and L.P. Reis. Multi-strategy learning made easy. *WSEAS Transactions on Systems*, 5(10):2378–2384, 2006.

2005

27. M. Riedmiller and D. Withopf. Effective Methods for Reinforcement Learning in Large Multi-Agent Domains. *it – Information Technology Journal*, 47(5):241–249, 2005.
28. Vadym Kyrlyov, Martin Greber, and David Bergman. Multi-criteria optimization of ball passing in simulated soccer. *Journal of Multi-Criteria Decision Analysis*, 13:103–113, 2005.
29. Jelle R. Kok, Matthijs T. J. Spaan, and Nikos Vlassis. Non-communicative multi-robot coordination in dynamic environments. *Robotics and Autonomous Systems*, 50(2-3):99–114, February 2005.

30. Oliver Obst and Markus Rollmann. SPARK – A Generic Simulator for Physical Multiagent Simulations. *Computer Systems Science and Engineering*, 20(5), September 2005.
31. Peter Stone, Richard S. Sutton, and Gregory Kuhlmann. Reinforcement learning for RoboCup-soccer keepaway. *Adaptive Behavior*, 2005.
32. Shimon Whiteson, Nate Kohl, Risto Miikkulainen, and Peter Stone. Evolving keepaway soccer players through task decomposition. *Machine Learning*, 59(1):5–30, May 2005.

2004

33. T. Wagner, U. Visser, and O. Herzog. Egocentric Qualitative Knowledge Representation for Physical Robots. *Journal for Robotics and Autonomous Systems*, Vol. 49:pp. 25–42, 2004.
34. Elizabeth Sklar, Simon Parsons, and Peter Stone. Using RoboCup in university-level computer science education. *Journal on Educational Resources in Computing*, 4(2), June 2004. Special issue on robotics in undergraduate education. Part 1.

2003

35. Itsuki Noda and Peter Stone. The RoboCup soccer server and CMUnited clients: Implemented infrastructure for MAS research. *Autonomous Agents and Multi-Agent Systems*, 7(1–2):101–120, July–September 2003.
36. Gal A. Kaminka, Ian Frank, Katsuto Arai, and Kumiko Tanaka-Ishii. Performance competitions as research infrastructure: Large scale comparative studies of multi-agent teams. *Journal of Autonomous Agents and Multiagent Systems*, 7(1–2), 2003.

2002

37. Frieder Stolzenburg, Alejandro J. García, Carlos I. Chesñevar, and Guillermo R. Simari. Computing generalized specificity. *Journal of Applied Non-Classical Logics*, 12(3/4), 2002.

2001

38. A. Bonarini and V. Trianni. Learning fuzzy classifier systems for multi-agent coordination. *Information Sciences*, 136(1–4):215–239, 2001.
39. Fernando Fernández and Lynne Parker. Learning in large cooperative multi-robot domains. *International Journal of Robotics and Automation*, November 2001.
40. C. S. Marsella, J. Adibi, Y. Al-Onaizan, G. A. Kaminka, I. Muslea, M. Tallis, and M. Tambe. On being a teammate: Experiences acquired in the design of robocup teams. *Journal of Autonomous Agents and Multi-Agent Systems*, 4(1–2), 2001.

2000

41. Peter Stone and Manuela Veloso. Multiagent systems: A survey from a machine learning perspective. *Autonomous Robots*, 8(3):345–383, July 2000.
42. M. Riedmiller. Concepts and facilities of a neural reinforcement learning control architecture for technical process control. *Journal of Neural Computing and Application*, 8:323–338, 2000.

1999

43. Peter Stone and Manuela Veloso. Task Decomposition, Dynamic Role Assignment, and Low-Bandwidth Communication for Real-Time Strategic Teamwork. *Artificial Intelligence*, 110(2):241–273, June 1999.
44. Milind Tambe, Jafar Adibi, Yaser Al-Onaizan, Ali Erdem, Gal A. Kaminka, Stacy C. Marsella, and Ion Muslea. Building agent teams using an explicit teamwork model and learning. *Artificial Intelligence*, 111(1):215–239, 1999.
45. Nobuhiro Ito, Kouichi Nakagawa, Xiaoyong Du, and Naohiro Ishii. The Design of Soccer Agents based on EAMMO Description-Processing System. *Journal of IEEJ*, 119-C(1):28–36, 1999. in Japanese.
46. Kumiko TANAKA, Ian FRANK, Itsuki NODA, and Hitoshi MATSUBARA. Stastical Analysis on RoboCup Simulation League (in japanese). *Journal of Japan Society of Artificial Intelligence*, 14(2):200–207, March 1999.

1998

47. Nobuhiro Ito, Kouichi Nakagawa, Takahiro Hotta, Xiaoyong Du, and Naohiro Ishii. EAMMO: An environmental agent model for multiple objects. *Information and Software Technology*, 40(7):397–404, 1998. ELSEVIER.
48. Itsuki Noda, Hitoshi Matsubara, Kazuo Hiraki, and Ian Frank. Soccer Server: A Tool for Research on Multiagent Systems. *Applied Artificial Intelligence*, 12(2–3):233–250, 1998.
49. Peter Stone and Manuela Veloso. Towards Collaborative and Adversarial Learning: A Case Study in Robotic Soccer. *International Journal of Human-Computer Studies*, 48(1):83–104, January 1998.
50. Peter Stone and Manuela Veloso. A Layered Approach to Learning Client Behaviors in the RoboCup Soccer Server. *Applied Artificial Intelligence*, 12:165–188, 1998.

1997

51. Itsuki NODA and Hideyuki NAKASHIMA. Cooperative Soccer Agent. *System/Control/Information*, 41(8):316–322, Aug. 1997.

1996

52. Itsuki NODA and Hitoshi MATSUBARA. Researches on Soccer Agents (in japanese). *Journal of Japan Society of Artificial Intelligence*, 11(5):694–701, Sep. 1996.

Book Chapters

2013

53. Patrick MacAlpine, Nick Collins, Adrian Lopez-Mobilia, and Peter Stone. UT Austin Villa: RoboCup 2012 3D simulation league champion. In Xiaoping Chen, Peter Stone, Luis Enrique Sucar, and Tijn Van der Zant, editors, *RoboCup-2012: Robot Soccer World Cup XVI*, Lecture Notes in Artificial Intelligence. Springer Verlag, Berlin, 2013.
54. Patrick MacAlpine, Francisco Barrera, and Peter Stone. Positioning to win: A dynamic role assignment and formation positioning system. In Xiaoping Chen, Peter Stone, Luis Enrique Sucar, and Tijn Van der Zant, editors, *RoboCup-2012: Robot Soccer World Cup XVI*, Lecture Notes in Artificial Intelligence. Springer Verlag, Berlin, 2013.
55. Andreas Seekircher, Justin Stoecker, Saminda Abeyruwan, and Ubbo Visser. Motion capture and contemporary optimization algorithms for robust and stable motions on simulated biped robots. In Xiaoping Chen, Peter Stone, Luis Enrique Sucar, and Tijn Van der Zant, editors, *RoboCup 2012: Robot Soccer World Cup XVII*. Springer Berlin / Heidelberg, Mexico City, 2013.
56. Aijun Bai, Feng Wu, and Xiaoping Chen. Towards a principled solution to simulated robot soccer. In Xiaoping Chen, Peter Stone, Luis Enrique Sucar, and Tijn Van der Zant, editors, *RoboCup-2012: Robot Soccer World Cup XVI*, volume 7500 of *Lecture Notes in Artificial Intelligence*. Springer Verlag, Berlin, 2013.
57. SyedAli Raza and Sajjad Haider. Designing and optimization of omni-directional kick for bipedal robots. In Moonis Ali, Tibor Bosse, Koen V. Hindriks, Mark Hoogendoorn, Catholijn M. Jonker, and Jan Treur, editors, *Recent Trends in Applied Artificial Intelligence*, volume 7906 of *Lecture Notes in Computer Science*, pages 292–301. Springer Berlin Heidelberg, 2013.
58. Syed Ali Raza and Sajjad Haider. Designing and optimization of omni-directional kick for bipedal robots. In Moonis Ali, Tibor Bosse, Koen V. Hindriks, Mark Hoogendoorn, Catholijn M. Jonker, and Jan Treur, editors, *Recent Trends in Applied Artificial Intelligence, 26th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2013, Amsterdam, The Netherlands, June 17-21, 2013. Proceedings*, volume 7906 of *Lecture Notes in Computer Science*, pages 292–301. Springer, 2013.
59. Saleha Raza, Sajjad Haider, and Mary-Anne Williams. Robot reasoning using first order bayesian networks. In Zengchang Qin and Van-Nam Huynh, editors, *Integrated Uncertainty in Knowledge Modelling and Decision Making - International Symposium, IUKM 2013, Beijing, China, July 12-14, 2013. Proceedings*, volume 8032 of *Lecture Notes in Computer Science*, pages 1–12. Springer, 2013.

60. Saleha Raza and Sajjad Haider. Path planning in robocup soccer simulation 3d using evolutionary artificial neural network. In Ying Tan, Yuhui Shi, and Hongwei Mo, editors, *Advances in Swarm Intelligence, 4th International Conference, ICSI 2013, Harbin, China, June 12-15, 2013, Proceedings, Part II*, volume 7929 of *Lecture Notes in Computer Science*, pages 342–350. Springer, 2013.

2012

61. Asma Sanam Larik and Sajjad Haider. Rule-based behavior prediction of opponent agents using robocup 3d soccer simulation league logfiles. In Lazaros S. Iliadis, Ilias Maglogiannis, and Harris Papadopoulos, editors, *Artificial Intelligence Applications and Innovations - 8th IFIP WG 12.5 International Conference, AIAI 2012, Halkidiki, Greece, September 27-30, 2012, Proceedings, Part I*, volume 381 of *IFIP Advances in Information and Communication Technology*, pages 285–295. Springer, 2012.
62. Rui Ferreira, LusPaulo Reis, AntnioPaulo Moreira, and Nuno Lau. Development of an omnidirectional kick for a nao humanoid robot. In Juan Pavn, NstorD. Duque-Mndez, and Rubn Fuentes-Fernndez, editors, *Advances in Artificial Intelligence “ IBERAMIA 2012*, volume 7637 of *Lecture Notes in Computer Science*, pages 571–580. Springer Berlin Heidelberg, 2012.
63. Luis Cruz, LuisPaulo Reis, Nuno Lau, and Armando Sousa. Optimization approach for the development of humanoid robots(tm) behaviors. In Juan Pavn, NstorD. Duque-Mndez, and Rubn Fuentes-Fernndez, editors, *Advances in Artificial Intelligence “ IBERAMIA 2012*, volume 7637 of *Lecture Notes in Computer Science*, pages 491–500. Springer Berlin Heidelberg, 2012.
64. Joo Cunha, LauNuno, and Joo Rodrigues. Ball interception behaviour in robotic soccer. In Thomas Rfer, N.Michael Mayer, Jesus Savage, and Uluc Saranl, editors, *RoboCup 2011: Robot Soccer World Cup XV*, volume 7416 of *Lecture Notes in Computer Science*, pages 114–125. Springer Berlin Heidelberg, 2012.
65. Aijun Bai, Xiaoping Chen, Patrick MacAlpine, Daniel Urieli, Samuel Barrett, and Peter Stone. Wright Eagle and UT Austin Villa: RoboCup 2011 simulation league champions. In Thomas Roefer, Norbert Michael Mayer, Jesus Savage, and Uluc Saranli, editors, *RoboCup-2011: Robot Soccer World Cup XV*, *Lecture Notes in Artificial Intelligence*. Springer Verlag, Berlin, 2012.
66. Justin Stoecker and Ubbo Visser. Roboviz: Programmable visualization for simulated soccer. In Thomas Rfer, N.Michael Mayer, Jesus Savage, and Uluc Saranl, editors, *RoboCup 2011: Robot Soccer World Cup XV*, volume 7416 of *Lecture Notes in Computer Science*, pages 282–293. Springer Berlin Heidelberg, 2012.

2011

67. P. Abreu, I. Costa, D. Castelo, L.P. Reis, and J. Garganta. Human vs. robotic soccer: How far are they? a statistical comparison. In Javier Ruiz-del Solar, Eric Chown, and PaulG.

- Plger, editors, *RoboCup 2010: Robot Soccer World Cup XIV*, volume 6556 of *Lecture Notes in Computer Science*, pages 242–253. Springer Berlin Heidelberg, Singapore, 2011.
68. N. Shafii, L.P. Reis, and N. Lau. Biped walking using coronal and sagittal movements based on truncated fourier series. In Javier Ruiz-del Solar, Eric Chown, and PaulG. Plger, editors, *RoboCup 2010: Robot Soccer World Cup XIV*, volume 6556 LNAI of *Lecture Notes in Computer Science*, pages 324–335. Springer Berlin Heidelberg, Singapore, 2011.
 69. E. Domingues, N. Lau, B. Pimentel, N. Shafii, L.P. Reis, and A.J.R. Neves. Humanoid behaviors: From simulation to a real robot. In Luis Antunes and H.Sofia Pinto, editors, *Progress in Artificial Intelligence*, volume 7026 of *Lecture Notes in Computer Science*, pages 352–364. Springer Berlin Heidelberg, Lisbon, 2011.
 70. P. Sousa, J.L. Oliveira, L.P. Reis, and F. Gouyon. Humanized robot dancing: Humanoid motion retargeting based in a metrical representation of human dance styles. In Luis Antunes and H.Sofia Pinto, editors, *Progress in Artificial Intelligence*, volume 7026 of *Lecture Notes in Computer Science*, pages 392–406. Springer Berlin Heidelberg, Lisbon, 2011.
 71. Thomas Gabel and Martin Riedmiller. On Progress in RoboCup: The Simulation League Showcase. In *E. Chown, A. Matsumoto, P. Ploeger, J. del Solar (editors), RoboCup 2010: Robot Soccer World Cup XIV, LNCS*, Singapore, 2011. Springer.
 72. Andreas Seekircher, Tim Laue, and Thomas Rfer. Entropy-based active vision for a humanoid soccer robot. In Javier Ruiz-del Solar, Eric Chown, and PaulG. Plger, editors, *RoboCup 2010: Robot Soccer World Cup XIV*, volume 6556 of *Lecture Notes in Computer Science*, pages 1–12. Springer Berlin Heidelberg, 2011.

2010

73. Vadym Kyrylov and Eddie Hou. Pareto-optimal collaborative defensive player positioning in simulated soccer. In J. Baltes et al., editor, *RoboCup 2009: Robot Soccer World Cup XIII*. Springer Verlag, 2010.
74. Reinhard Gerndt, Matthias Bohnen, Rodrigo da Silva Guerra, and Minoru Asada. The RoboCup mixed reality league – a case study. In Emmanuel Dubois, Philip Gray, and Laurence Nigay, editors, *The Engineering of Mixed Reality Systems*, Human-Computer Interaction Series, chapter 19, pages 399–419. Springer-Verlag London, 2010.
75. Fagner de A. M. Pimentel, Marco A. C. Simoes, Josemar R. de Souza, and Diego Frias. Mr-simulator: A simulator for the mixed reality competition of robocup. *RoboCup International Symposium*, 2010.
76. Joo Silva, Nuno Lau, Joo Rodrigues, JosLus Azevedo, and AntnioJ.R. Neves. Sensor and information fusion applied to a robotic soccer team. In Jacky Baltes, MichailG. Lagoudakis, Tadashi Naruse, and SaeedShiry Ghidary, editors, *RoboCup 2009: Robot Soccer World Cup XIII*, volume 5949 of *Lecture Notes in Computer Science*, pages 366–377. Springer Berlin Heidelberg, 2010.

77. Itsuki Noda, Peter Stone, Tomohisa Yamashita, and Koichi Kurumatani. Multi-Agent Social Simulation. In Nakashima, H., Aghajan, H., & Augusto, J. C., editor, *Handbook of Ambient Intelligence and Smart Environments*, pages 703–729. Springer Verlag, 2010.

2009

78. Klaus Dorer. Modeling human decision making using extended behavior networks. In *RoboCup*, pages 81–91, 2009.
79. Shivaram Kalyanakrishnan and Peter Stone. Learning complementary multiagent behaviors: A case study. In *Proceedings of the RoboCup International Symposium 2009*. Springer Verlag, 2009.
80. Shivaram Kalyanakrishnan, Todd Hester, Michael Quinlan, Yinon Bentor, and Peter Stone. Three humanoid soccer platforms: Comparison and synthesis. In *Proceedings of the RoboCup International Symposium 2009*. Springer Verlag, 2009.
81. Nuno M. Figueiredo, Antnio J. R. Neves, Nuno Lau, Artur Pereira, and Gustavo Corrente. Control and monitoring of a robotic soccer team: The base station application. In LusSeabra Lopes, Nuno Lau, Pedro Mariano, and LusM. Rocha, editors, *Progress in Artificial Intelligence*, volume 5816 of *Lecture Notes in Computer Science*, pages 299–309. Springer Berlin Heidelberg, 2009.
82. N. Lau, L. Seabra Lopes, N. Filipe, and G. Corrente. Roles, positionings and set plays to coordinate a robocup msl team. In LusSeabra Lopes, Nuno Lau, Pedro Mariano, and LusM. Rocha, editors, *Progress in Artificial Intelligence*, volume 5816 of *Lecture Notes in Computer Science*, pages 323–337. Springer Berlin Heidelberg, Aveiro, 2009.
83. R. Almeida, L.P. Reis, and A.M. Jorge. Analysis and forecast of team formation in the simulated robotic soccer domain. In LusSeabra Lopes, Nuno Lau, Pedro Mariano, and LusM. Rocha, editors, *Progress in Artificial Intelligence*, volume 5816 of *Lecture Notes in Computer Science*, pages 239–250. Springer Berlin Heidelberg, Aveiro, 2009.
84. H. Picado, M. Gestal, N. Lau, L.P. Reis, and A.M. Tom. Automatic generation of biped walk behavior using genetic algorithms. In Joan Cabestany, Francisco Sandoval, Alberto Prieto, and JuanM. Corchado, editors, *Bio-Inspired Systems: Computational and Ambient Intelligence*, volume 5517, PART 1 of *Lecture Notes in Computer Science*, pages 805–812. Springer Berlin Heidelberg, Salamanca, 2009.
85. Tobias Warden, AndreasD. Lattner, and Ubbo Visser. Real-time spatio-temporal analysis of dynamic scenes in 3d soccer simulation. In Luca Iocchi, Hitoshi Matsubara, Alfredo Weitzenfeld, and Changjiu Zhou, editors, *RoboCup 2008: Robot Soccer World Cup XII*, volume 5399 of *Lecture Notes in Computer Science*, pages 366–378. Springer Berlin Heidelberg, 2009.

2008

86. L. Mota and L.P. Reis. A common framework for co-operative robotics: An open, fault tolerant architecture for multi-league robocup teams. In Stefano Carpin, Itsuki Noda, Enrico

Pagello, Monica Reggiani, and Oskar Stryk, editors, *Simulation, Modeling, and Programming for Autonomous Robots*, volume 5325 of *Lecture Notes in Computer Science*, pages 171–182. Springer Berlin Heidelberg, Venice, 2008.

87. Luiz Celiberto, Carlos H. Ribeiro, Anna H. Costa, and Reinaldo A. Bianchi. Heuristic reinforcement learning applied to robocup simulation agents. In Ubbo Visser, Fernando Ribeiro, Takeshi Ohashi, and Frank Dellaert, editors, *RoboCup 2007: Robot Soccer World Cup XI*, pages 220–227. Springer-Verlag, Berlin, Heidelberg, 2008.
88. Vadym Kyrylov and Serguei Razykov. Pareto-optimal offensive player positioning in simulated soccer. In Ubbo Visser, Fernando Ribeiro, Takeshi Ohashi, , and Frank Dellaert, editors, *RoboCup 2007: Robot Soccer World Cup XI*. Springer Verlag, 2008.
89. Rodrigo da Silva Guerra, Joschka Boedecker, Norbert Mayer, Shinzo Yanagimachi, Yasuji Hirosawa, Kazuhiko Yoshikawa, Masaaki Namekawa, and Minoru Asada. Introducing physical visualization sub-league introducing physical visualization sub-league. In *RoboCup 2007: Robot Soccer World Cup XI*, volume 5001/2008 of *Lecture Notes in Computer Science*, pages 496–503. Springer Berlin / Heidelberg, 2008.
90. Thomas Gabel, Martin Riedmiller, and Florian Trost. A Case Study on Improving Defense Behavior in Soccer Simulation 2D: The NeuroHassle Approach. In *L. Iocchi, H. Matsubara, A. Weitzenfeld, C. Zhou (editors), RoboCup 2008: Robot Soccer World Cup XII, LNCS*, pages 61–72, Suzhou, China, 2008. Springer.
91. Ramin Fathzadeh, Vahid Mokhtari, Mohammad Reza Kangavari, and Morteza Mousakhani. Opponent provocation and behavior classification: A machine learning approach. In Ubbo Visser, Fernando Ribeiro, Takeshi Ohashi, and Frank Dellaert, editors, *RoboCup-2007: Robot Soccer World Cup XI*. Springer Verlag, Berlin, 2008.

2007

92. Luiz A. CelibertoJR, Jackson Matsuura, and Reinaldo A.C. Bianchi. Heuristic q-learning soccer players: A new reinforcement learning approach to robocup simulation. In Jos Neves, ManuelFilipe Santos, and JosManuel Machado, editors, *Progress in Artificial Intelligence*, volume 4874 of *Lecture Notes in Computer Science*, pages 520–529. Springer Berlin Heidelberg, 2007.
93. Norbert Michael Mayer, Joschka Boedecker, Rodrigo da Silva Guerra, Oliver Obst, and Minoru Asada. 3D2Real: Simulation league finals in real robots. In Gerhard Lakemeyer, Elizabeth Sklar, Domenico G. Sorrenti, and Tomoichi Takahashi, editors, *RoboCup 2006: Robot Soccer World Cup X*, Lecture Notes in Artificial Intelligence, 2007.
94. Vadym Kyrylov. A robust and scalable pareto optimal ball passing algorithm for the robotic soccer. In Gerhard Lakemeyer, Elizabeth Sklar, Domenico G. Sorrenti, and Tomoichi Takahashi, editors, *RoboCup 2006: Robot Soccer World Cup X*, Lecture Notes in Artificial Intelligence. Springer Verlag, 2007.

95. Frank Dylla, Alexander Ferrein, Gerhard Lakemeyer, Jan Murray, Oliver Obst, Thomas Röfer, Stefan Schiffer, Frieder Stolzenburg, Ubbo Visser, and Thomas Wagner. Computers in sport. In Peter Dabnicki and Arnold Baca, editors, *tba*, Bioengineering, chapter Approaching a Formal Soccer Theory from the Behavior Specification in Robotic Soccer. WIT Press, 2007.
96. N. Lau, L.P. Reis, and J. Certo. Understanding dynamic agent’s reasoning. In Jos Neves, Manuel Filipe Santos, and Jos Manuel Machado, editors, *Progress in Artificial Intelligence*, volume 4874 of *Lecture Notes in Computer Science*, pages 542–551. Springer Berlin Heidelberg, Guimaraes, 2007.
97. J. Certo, N. Lau, and L.P. Reis. A generic strategic layer for collaborative networks. In Luis M. Camarinha-Matos, Hamideh Afsarmanesh, Paulo Novais, and Cesar Analide, editors, *Establishing the Foundation of Collaborative Networks*, volume 243 of *IFIP ” The International Federation for Information Processing*, pages 273–282. Springer US, 2007.
98. Vadym Kyrylov. Balancing rewards, risks, costs, and real-time constraints in the ball passing algorithm for the robotic soccer. In Gerhard Lakemeyer, Elizabeth Sklar, Domenico Sorenti, and Tomoichi Takahashi, editors, *RoboCup-2006: Robot Soccer World Cup X*. Springer Verlag, Berlin, 2007.
99. Shivaram Kalyanakrishnan, Yaxin Liu, and Peter Stone. Half field offense in RoboCup soccer: A multiagent reinforcement learning case study. In Gerhard Lakemeyer, Elizabeth Sklar, Domenico Sorenti, and Tomoichi Takahashi, editors, *RoboCup-2006: Robot Soccer World Cup X*. Springer Verlag, Berlin, 2007.

2006

100. Carlos Bustamante, Leonardo Garrido, and Rogelio Soto. Fuzzy naive bayesian classification in robosoccer 3d: A hybrid approach to decision making. In Gerhard Lakemeyer, Elizabeth Sklar, Domenico Sorenti, and Tomoichi Takahashi, editors, *RoboCup-2006: Robot Soccer World Cup X*, Berlin, 2006. Springer Verlag.
101. Andreas D. Lattner, Andrea Miene, Ubbo Visser, and Otthein Herzog. Sequential pattern mining for situation and behavior prediction in simulated robotic soccer. In Ansgar Breidenfeld, Adam Jacoff, Itsuki Noda, and Yasutake Takahashi, editors, *RoboCup-2005: Robot Soccer World Cup VIII*, volume 4020 of *Lecture Notes in Computer Science*, pages 118–129. Springer Verlag, Berlin, 2006.
102. Steffen Planthaber and Ubbo Visser. Logfile player and analyzer for robocup 3d. In Gerhard Lakemeyer, Elizabeth Sklar, Domenico Sorrenti, and Tomoichi Takahashi, editors, *RoboCup 2006: Robot Soccer World Cup X*, Bremen, Germany, 2006. Springer.
103. F. Dylla, A. Ferrein, G. Lakemeyer, J. Murray, O. Obst, T. Roefler, F. Stolzenburg, U. Visser, and T. Wagner. Towards a League-Independent Qualitative Soccer Theory for RoboCup. In A. Baca P. Dabnicki, editor, *Bioengineering , to be released - no fix title yet*. WIT Press, London, 2006.

104. José Antonio Iglesias, Agapito Ledezma, and Araceli Sanchis. A comparing method of two team behaviours in the simulation coach competition. In Vicenç Torra, Yasuo Narukawa, Aida Valls, and Josep Domingo-Ferrer, editors, *MDAI*, volume 3885 of *Lecture Notes in Computer Science*, pages 117–128. Springer, 2006.
105. Carlos Bustamante, Leonardo Garrido, and Rogelio Soto. Comparing fuzzy naive bayes and gaussian naive bayes for decision making in robocup 3d. In Alexander F. Gelbukh and Carlos A. Reyes García, editors, *MICAI 2006: Advances in Artificial Intelligence*, volume 4293 of *Lecture Notes in Computer Science*, pages 237–247. Springer, 2006.
106. H.Ṫ. Dashti, N. Aghaeepour, S. Asadi, M. Bastani, Z. Delafkar, F.Ṫ. Disfani, S.Ṫ. Ghaderi, S. Kamali, S. Pashami, and A.Ṫ. Siahpirani. Dynamic positioning based on voronoi cells (dpsc). In Itsuki Noda, Adam Jacoff, Ansgar Bredendfeld, and Yasutake Takahashi, editors, *RoboCup-2005: Robot Soccer World Cup IX*, volume 4020. Springer Verlag, Berlin, 2006.
107. Ramin Fathzadeh, Vahid Mokhtari, Morteza Mousakhani, and Alireza Mohammad Shahri. Coaching with expert system towards robocup soccer coach simulation. In Itsuki Noda, Adam Jacoff, Ansgar Bredendfeld, and Yasutake Takahashi, editors, *RoboCup-2005: Robot Soccer World Cup IX*. Springer Verlag, Berlin, 2006.
108. Kamalakar Karlapalem Ravi Sankar Penta. Agent community extraction for 2d-robosoccer. In Itsuki Noda, Adam Jacoff, Ansgar Bredendfeld, and Yasutake Takahashi, editors, *RoboCup-2005: Robot Soccer World Cup IX*. Springer Verlag, Berlin, 2006.
109. Oliver Obst and Joschka Boedecker. Flexible coordination of multiagent team behavior using HTN planning. In Itsuki Noda, Adam Jacoff, Ansgar Bredendfeld, and Yasutake Takahashi, editors, *RoboCup 2005: Robot Soccer World Cup IX*, Lecture Notes in Artificial Intelligence, pages 521–528. Springer, Berlin, Heidelberg, New York, 2006.
110. Heni Ben Amor, Jan Murray, and Oliver Obst. Fast, neat and under control: Inverse steering behaviors for physical autonomous agents. In Steve Rabin, editor, *AI Game Programming Wisdom 3*, pages 221–232. Charles River Media, Boston, MA, 2006. ISBN 1-58450-457-9.
111. Oliver Obst. Using a planner for coordination of multiagent team behavior. In Rafael H. Bordini, Mehdi Dastani, J=C2=B8rgen Dix, and Amal ElFallah Seghrouchni, editors, *Programming Multi-Agent Systems: Third International Workshop, ProMAS 2005, Utrecht, The Netherlands, July 26, 2005, Revised and Invited Papers*, volume 3862 of *Lecture Notes in Computer Science*, pages 90 – 100. Springer, Berlin, March 2006.
112. Peter Stone, Gregory Kuhlmann, Matthew E. Taylor, and Yaxin Liu. Keepaway soccer: From machine learning testbed to benchmark. In Itsuki Noda, Adam Jacoff, Ansgar Bredendfeld, and Yasutake Takahashi, editors, *RoboCup-2005: Robot Soccer World Cup IX*. Springer Verlag, Berlin, 2006.

2005

113. Vadym Kyrylov, David Brokenshire, and Eddie Hou. Optimizing precision of self-localization in the simulated robotics soccer. In Daniele Nardi, Martin Riedmiller, Claude Sammut, and

José Santos-Victor, editors, *RoboCup 2004: Robot Soccer World Cup VIII*, volume 3276 of *Lecture Notes in Artificial Intelligence*, pages 249–257. Springer, Berlin, Heidelberg, New York, 2005.

114. Frank Dylla, Alexander Ferrein, Gerhardt Lakemeyer, Jan Murray, Oliver Obst, Thomas Röfer, Frieder Stolzenburg, Ubbo Visser, and Thomas Wagner. Towards a League-Independent Qualitative Soccer Theory for RoboCup. In Daniele Nardi, Martin Riedmiller, Claude Sammut, and José Santos-Victor, editors, *RoboCup 2004: Robot Soccer World Cup VIII*, volume 3276 of *Lecture Notes in Artificial Intelligence*, pages 611–618. Springer, Berlin, Heidelberg, New York, 2005.
115. Gregory Kuhlmann, Peter Stone, and Justin Lallinger. The UT Austin Villa 2003 champion simulator coach: A machine learning approach. In Daniele Nardi, Martin Riedmiller, and Claude Sammut, editors, *RoboCup-2004: Robot Soccer World Cup VIII*. Springer Verlag, Berlin, 2005.

2004

116. Oliver Obst. Using model-based diagnosis to build hypotheses about spatial environments. In Daniel Polani, Andrea Bonarini, Brett Browning, and Kazuo Yoshida, editors, *RoboCup 2003: Robot Soccer World Cup VII*, *Lecture Notes in Artificial Intelligence*, pages 518 – 525. Springer, Berlin, Heidelberg, New York, 2004.
117. Marco Kögler and Oliver Obst. Simulation league: The next generation. In Daniel Polani, Andrea Bonarini, Brett Browning, and Kazuo Yoshida, editors, *RoboCup 2003: Robot Soccer World Cup VII*, volume 3020 of *Lecture Notes in Artificial Intelligence*, pages 458 – 469. Springer, Berlin, Heidelberg, New York, 2004.
118. Jan Murray. Specifying agents with UML statecharts and StatEdit. In Andrea Bonarini, Brett Browning, Daniel Polani, and Kazuo Yoshida, editors, *Robo Cup 2003: Robot Soccer World Cup VII*, volume 3020 of *Lecture Notes in Artificial Intelligence*. Springer, 2004.
119. Hans-Dieter Burkhard, Minoru Asada, Andrea Bonarini, Adam Jacoff, Daniele Nardi, Martin Riedmiller, Claude Sammut, Elizabeth Sklar, and Manuela Veloso. RoboCup: Yesterday, Today, and Tomorrow. In Daniel Polani, Brett Browning, Andrea Bonarini, and Kazuo Yoshida, editors, *RoboCup 2003: Robot Soccer World Cup VII*, volume 3020 of *Lecture Notes in Artificial Intelligence*. Springer, 2004.
120. Gregory Kuhlmann and Peter Stone. Progress in learning 3 vs. 2 keepaway. In Daniel Polani, Brett Browning, Andrea Bonarini, and Kazuo Yoshida, editors, *RoboCup-2003: Robot Soccer World Cup VII*. Springer Verlag, Berlin, 2004.
121. Peter Stone. RoboCup as an introduction to CS research. In Daniel Polani, Brett Browning, Andrea Bonarini, and Kazuo Yoshida, editors, *RoboCup-2003: Robot Soccer World Cup VII*. Springer Verlag, Berlin, 2004.
122. Elizabeth Sklar, Simon Parsons, and Peter Stone. RoboCup in higher education: A preliminary report. In Daniel Polani, Brett Browning, Andrea Bonarini, and Kazuo Yoshida, editors, *RoboCup-2003: Robot Soccer World Cup VII*. Springer Verlag, Berlin, 2004.

123. Martin Löttsch, Joscha Bach, Hans-Dieter Burkhard, and Matthias Jüngel. Designing Agent Behavior with the Extensible Agent Behavior Specification Language XABSL. In Daniel Polani, Brett Browning, Andrea Bonarini, and Kazuo Yoshida, editors, *RoboCup 2003: Robot Soccer World Cup VII*, volume 3020 of *Lecture Notes in Artificial Intelligence*. Springer, 2004.
124. Andrea Miene, Ubbo Visser, and Otthein Herzog. Recognition and prediction of motion situations based on a qualitative motion description. In Daniel Polani, Brett Browning, Andrea Bonarini, and Kazuo Yoshida, editors, *RoboCup 2003: Robot Soccer World Cup VII*, volume 3020 of *Lecture Notes in Computer Science*, pages 77–88. Springer Berlin Heidelberg, 2004.

2003

125. Oliver Obst and Daniel Polani. Simulation league – league summary. In Gal A. Kaminka, Pedro U. Lima, and Raul Rojas, editors, *RoboCup 2002: Robot Soccer World Cup VI*, volume 2752 of *Lecture Notes in Artificial Intelligence*, pages 443–452. Springer, 2003.
126. Jens Meyer, Robert Adolph, Daniel Stephan, Andreas Daniel, Matthias Seekamp, Volker Weinert, and Ubbo Visser. Decision-making and tactical behavior with potential fields. In GalA. Kaminka, PedroU. Lima, and Ral Rojas, editors, *RoboCup 2002: Robot Soccer World Cup VI*, volume 2752 of *Lecture Notes in Computer Science*, pages 304–311. Springer Berlin Heidelberg, 2003.
127. Ubbo Visser and Hans-Georg Weland. Using online learning to analyze the opponents behavior. In GalA. Kaminka, PedroU. Lima, and Ral Rojas, editors, *RoboCup 2002: Robot Soccer World Cup VI*, volume 2752 of *Lecture Notes in Computer Science*, pages 78–93. Springer Berlin Heidelberg, 2003.

2002

128. Peter Stone and Manuela Veloso. A survey of multiagent and multirobot systems. In Tucker Balch and Lynne E. Parker, editors, *Robot Teams: From Diversity to Polymorphism*. AK Peters Ltd, 2002.
129. Joscha Bach and Michael Gollin. Self-localization revisited. In Andreas Birk, Silvia Coradeschi, and Satoshi Tadokoro, editors, *RoboCup 2001: Robot Soccer World Cup V*, volume 2377 of *Lecture Notes in Artificial Intelligence*, pages 251–256. Springer, 2002.
130. Oliver Obst. Specifying rational agents with statecharts and utility functions. In Andreas Birk, Silvia Coradeschi, and Satoshi Tadokoro, editors, *RoboCup-01: Robot Soccer WorldCup V*, number 2377 in *Lecture Notes in Artificial Intelligence*, pages 173–182, Berlin, Heidelberg, New York, 2002. Springer.
131. Patrick Riley, Manuela Veloso, and Gal Kaminka. An empirical study of coaching. In H. Asama, T. Arai, T. Fukuda, and T. Hasegawa, editors, *Distributed Autonomous Robotic Systems 5*, pages 215–224. Springer-Verlag, 2002.

132. J. Habibi, E. Chiniforooshan, A. HeydarNoori, M. Mirzazadeh, M.A. Safari, and H.R. Younesy. Coaching a soccer simulation team in robocup environment. In A Min Tjoa Hassan Shafazand, editor, *EurAsia-ICT 2002: Information and Communication Technology*, pages 117–126. Springer-Verlag, Shiraz, Iran, October 2002. Proceedings of the The First EurAsian Conference on Advances in Information and Communication Technology.
133. L.P. Reis and N. Lau. Coach unilang - a standard language for coaching a (robo)soccer team. In Andreas Birk, Silvia Coradeschi, and Satoshi Tadokoro, editors, *RoboCup 2001: Robot Soccer World Cup V*, volume 2377 of *Lecture Notes in Computer Science*, pages 183–192. Springer Berlin Heidelberg, Seattle, WA, 2002.

2001

134. L.P. Reis, N. Lau, and E.C. Oliveira. Situation based strategic positioning for coordinating a team of homogeneous agents. In *Balancing Reactivity and Social Deliberation in Multi-Agent Systems*, volume 2103 of *Lecture Notes in Computer Science*, pages 175–197. Springer Berlin Heidelberg, Berlin, 2001.
135. Martin Riedmiller, Andrew Moore, and Jeff Schneider. Reinforcement Learning for Cooperating and Communicating Reactive Agents in Electrical Power Grids. In Enrico Pagello Markus Hannebauer, Jan Wendler, editor, *Balancing Reactivity and Social Deliberation in Multi-agent Systems*. Springer, LNAI 2103, 2001.
136. Patrick Riley, Peter Stone, and Manuela Veloso. Layered Disclosure: Revealing Agents’ Internals. In C. Castelfranchi and Y. Lespérance, editors, *Intelligent Agents VII. Agent Theories, Architectures, and Languages — 7th. International Workshop, ATAL-2000, Boston, MA, USA, July 7–9, 2000, Proceedings*, Lecture Notes in Artificial Intelligence. Springer-Verlag, Berlin, Berlin, 2001. In this volume.
137. Itsuki Noda and Peter Stone. The RoboCup soccer server and CMUnited clients: Implemented infrastructure for MAS research. In Tom Wagner and Omer Rana, editors, *Infrastructure for Agents, Multi-Agent Systems, and Scalable Multi-Agent Systems*, pages 94–101. Springer Verlag, Berlin, 2001.
138. Michael Wünnstel, Daniel Polani, Thomas Uthmann, , and Jürgen Perl. Behavior classification with self-organizing maps. In Peter Stone, Tucker Balch, and Gerhard Kraetschmar, editors, *RoboCup-2000: Robot Soccer World Cup IV*, pages 108–118. Springer Verlag, Berlin, 2001.
139. Marc Butler, Mikhail Prokopenko, , and Thomas Howard. Flexible synchronisation within robocup environment: a comparative analysis. In Peter Stone, Tucker Balch, and Gerhard Kraetschmar, editors, *RoboCup-2000: Robot Soccer World Cup IV*, pages 119–128. Springer Verlag, Berlin, 2001.
140. Ian Frank, Kumiko Tanaka-Ishii, Hiroshi Okuno, Junichi Akita, Yukiko Nakagawa, K. Maeda, Kazuhiro Nakadai, , and Hiroaki Kitano. And the fans are going wild! sig plus mike. In Peter Stone, Tucker Balch, and Gerhard Kraetschmar, editors, *RoboCup-2000: Robot Soccer World Cup IV*, pages 139–148. Springer Verlag, Berlin, 2001.

141. Jan Murray, Oliver Obst, , and Frieder Stolzenburg. Towards a logical approach for soccer agents engineering. In Peter Stone, Tucker Balch, and Gerhard Kraetszchmar, editors, *RoboCup-2000: Robot Soccer World Cup IV*, pages 199–208. Springer Verlag, Berlin, 2001.
142. Itsuki Noda. Framework of distributed simulation system for multi-agent environment. In Peter Stone, Tucker Balch, and Gerhard Kraetszchmar, editors, *RoboCup-2000: Robot Soccer World Cup IV*, pages 229–238. Springer Verlag, Berlin, 2001.
143. Peter Stone, Richard S. Sutton, , and Satinder Singh. Reinforcement learning for 3 vs. 2 keepaway. In Peter Stone, Tucker Balch, and Gerhard Kraetszchmar, editors, *RoboCup-2000: Robot Soccer World Cup IV*, pages 249–258. Springer Verlag, Berlin, 2001.
144. Jan Wendler, Steffen Brüggert, Hans-Dieter Burkhard, , and Helmut Myritz. Fault-tolerant self localization by case-based reasoning. In Peter Stone, Tucker Balch, and Gerhard Kraetszchmar, editors, *RoboCup-2000: Robot Soccer World Cup IV*, pages 259–268. Springer Verlag, Berlin, 2001.
145. Ubbo Visser, Christian Drcker, Sebastian Hbner, Esko Schmidt, and Hans-Georg Weland. Recognizing formations in opponent teams. In Peter Stone, Tucker Balch, and Gerhard Kraetszchmar, editors, *RoboCup 2000: Robot Soccer World Cup IV*, volume 2019 of *Lecture Notes in Computer Science*, pages 391–396. Springer Berlin Heidelberg, 2001.

2000

146. Peter Stone and Manuela Veloso. Layered Learning. In Ramon López de Mántaras and Enric Plaza, editors, *Machine Learning: ECML 2000*, pages 369–381. Springer Verlag, Barcelona,Catalonia,Spain, May/June 2000. Proceedings of the Eleventh European Conference on Machine Learning (ECML-2000).
147. C. Drücker, Sebastian Hübner, E. Schmidt, Ubbo Visser, and H. G. Weland. Virtual werder: Using the Online-Coach to change team formations. In *4th International Workshop on RoboCup*. Carnegie Mellon University Press, Pittsburgh, 2000.

1999

148. C. Stacy Marsella, Jafar Adibi, Yaser Al-Onaizan, Ali Erdem, Randy Hill, Gal A. Kaminka, Zhun Qiu, and Milind Tambe. Using an explicit teamwork model and learning in robocup: An extended abstract. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in *Lecture Notes in Artificial Intelligence*, pages 237–245. Springer Verlag, 1999.
149. Tomoichi Takahashi. Logmonitor: From player's action analysis to collaboration analysis and advice on formation. In Manuela Veloso, Enrico Pagello, and Hiroaki Kitano, editors, *RoboCup 2003: Robot Soccer World Cup III*, *Lecture Notes in Artificial Intelligence*, pages 103 – 113. Springer, Berlin, Heidelberg, New York, 1999.

150. Peter Stone and Manuela Veloso. Task Decomposition and Dynamic Role Assignment for Real-Time Strategic Teamwork. In J. P. Müller, M. P. Singh, and A. S. Rao, editors, *Intelligent Agents V — Proceedings of the Fifth International Workshop on Agent Theories, Architectures, and Languages (ATAL-98)*, volume 1555 of *Lecture Notes in Artificial Intelligence*, pages 293–308. Springer-Verlag, Heidelberg, 1999.

1998

151. Tomoichi Takahashi and Tadashi Naruse. From play recognition to good plays detection - reviewing robocup 97 teams from logfile -. In Minoru Asada and Hiroaki Kitano, editors, *RoboCup 2002: Robot Soccer World Cup II*, Lecture Notes in Artificial Intelligence, pages 187 – 192. Springer, Berlin, Heidelberg, New York, 1998.
152. Kazuaki Maeda, Akinori Kohketsu, and Tomoichi Takahashi. Ball-receiving skill dependent on centering in soccer simulation games. In Minoru Asada and Hiroaki Kitano, editors, *RoboCup 2002: Robot Soccer World Cup II*, Lecture Notes in Artificial Intelligence, pages 152 – 161. Springer, Berlin, Heidelberg, New York, 1998.
153. Peter Stone and Manuela Veloso. Communication in Domains with Unreliable, Single-Channel, Low-Bandwidth Communication. In Alexis Drogoul, Milind Tambe, and Toshio Fukuda, editors, *Collective Robotics*, pages 85–97. Springer Verlag, Berlin, July 1998.
154. Markus Hannebauer, Jan Wendler and Pascal Gugenberger, and Hans-Dieter Burkhard. Cooperative planning in a virtual soccer environment. In *Distributed Autonomous Robotic Systems 3*, pages 341–350. Springer, 1998.
155. Itsuki NODA and Ian FRANK. Investigating the Complex with Virtual Soccer. In J.-C. Heudin, editor, *Virtual Worlds*, pages 241–253. Springer Verlag (LNAI-1434), Sep. 1998.

Conferences

2013

156. Alon Farchy, Samuel Barrett, Patrick MacAlpine, and Peter Stone. Humanoid robots learning to walk faster: From the real world to simulation and back. In *Proc. of 12th Int. Conf. on Autonomous Agents and Multiagent Systems (AAMAS)*, May 2013.

2012

157. Patrick MacAlpine, Samuel Barrett, Daniel Urieli, Victor Vu, and Peter Stone. Design and optimization of an omnidirectional humanoid walk: A winning approach at the RoboCup 2011 3D simulation competition. In *Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence (AAAI)*, July 2012.

158. Patrick MacAlpine, Daniel Urieli, Samuel Barrett, Shivaram Kalyanakrishnan, Francisco Barrera, Adrian Lopez-Mobilia, Nicolae Ştiurcă, Victor Vu, and Peter Stone. UT Austin Villa 2011: A champion agent in the RoboCup 3D soccer simulation competition. In *Proc. of 11th Int. Conf. on Autonomous Agents and Multiagent Systems (AAMAS)*, June 2012.
159. Aijun Bai, Feng Wu, and Xiaoping Chen. Online planning for large mdps with maxq decomposition (extended abstract). In *Proc. of 11th Int. Conf. on Autonomous Agents and Multiagent Systems (AAMAS 2012)*, June 2012.
160. Onuralp Ulusoy and Sanem Sariel Talay. Distributed team formation for humanoid robot soccer. In Joaquim Filipe and Ana L. N. Fred, editors, *ICAART 2012 - Proceedings of the 4th International Conference on Agents and Artificial Intelligence, Volume 1 - Artificial Intelligence, Vilamoura, Algarve, Portugal, 6-8 February, 2012*, pages 605–613. SciTePress, 2012.
161. Sajjad Haider, Shaukat R. Abidi, and Mary-Anne Williams. On evolving a dynamic bipedal walk using partial fourier series. In *2012 IEEE International Conference on Robotics and Biomimetics, ROBIO 2012, Guangzhou, China, December 11-14, 2012*, pages 8–13. IEEE, 2012.
162. Syed Ali Raza, Usman Sharif, and Sajjad Haider. On learning coordination among soccer agents. In *2012 IEEE International Conference on Robotics and Biomimetics, ROBIO 2012, Guangzhou, China, December 11-14, 2012*, pages 699–703. IEEE, 2012.
163. Saleha Raza, Sajjad Haider, and Mary-Anne Williams. Teaching coordinated strategies to soccer robots via imitation. In *2012 IEEE International Conference on Robotics and Biomimetics, ROBIO 2012, Guangzhou, China, December 11-14, 2012*, pages 1434–1439. IEEE, 2012.
164. Joohyun Kim and Raymond J. Mooney. Unsupervised pcfg induction for grounded language learning with highly ambiguous supervision. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing and Natural Language Learning (EMNLP-CoNLL '12)*, pages 433–444, Jeju Island, Korea, July 2012.

2011

165. Luiz A. Celiberto, Jr., Jackson P. Matsuura, Ramon Lopez De Mantaras, and Reinaldo A. C. Bianchi. Using cases as heuristics in reinforcement learning: a transfer learning application. In *Proceedings of the Twenty-Second international joint conference on Artificial Intelligence - Volume Volume Two, IJCAI'11*, pages 1211–1217. AAAI Press, 2011.
166. Wanmi Chen and Tongluan Chen. Multi-robot dynamic role assignment based on path cost. In *Control and Decision Conference (CCDC), 2011 Chinese*, pages 3721–3724, 2011.
167. Daniel Urieli, Patrick MacAlpine, Shivaram Kalyanakrishnan, Yinon Bentor, and Peter Stone. On optimizing interdependent skills: A case study in simulated 3d humanoid robot soccer. In *Tenth International Conference on Autonomous Agents and Multiagent Systems*, 2011.

168. N. Shafii, L.P. Reis, and R.J.F. Rossetti. Two humanoid simulators: Comparison and synthesis. In *Proceedings of the 6th Iberian Conference on Information Systems and Technologies, CISTI 2011*, Chaves, 2011.
169. C.B. Santiago, L.P. Reis, R. Rossetti, and A. Sousa. Foundations for creating a handball sport simulator. In *Proceedings of the 6th Iberian Conference on Information Systems and Technologies, CISTI 2011*, Chaves, 2011.
170. Shahriar Asta and Sanem Sariel-Talay. A differential steering system for humanoid robots. In *Proceedings of the 5th European Conference on Mobile Robots (ECMR)*, pages 259–264, 2011.
171. Shahriar Asta and Sanem Sariel-Talay. Nature-inspired optimization for biped robot locomotion and gait planning. In *EvoApplications (2)*, pages 434–443, 2011.

2010

172. Carsten Rachuy and Ubbo Visser. Behavior-analysis and prediction for agents in real-time and dynamic adversarial environments. In *Proceedings of the 2010 conference on ECAI 2010: 19th European Conference on Artificial Intelligence*, pages 979–980, Amsterdam, The Netherlands, The Netherlands, 2010. IOS Press.
173. L. Mota, N. Lau, and L. P. Reis. Co-ordination in robocup’s 2d simulation league: Setplays as flexible, multi-robot plans. In *IEEE International Conference on Robotics, Automation and Mechatronics (RAM 2010)*, 2010.
174. R. Lopes, L. Mota, L. P. Reis, and N. Lau. Playmaker: Graphical definition of formations and setplays. In *Information Systems and Technologies (CISTI)*, June 2010.
175. J. Portela, P. Abreu, L.P. Reis, E. Oliveira, and J. Garganta. An intelligent framework for automatic event detection in robotic soccer games: An auxiliar tool to help coaches improve their teams’ performance. In *ICEIS 2010 - Proceedings of the 12th International Conference on Enterprise Information Systems*, volume 2 AIDSS, pages 244–249, Funchal, 2010.
176. P. Abreu, M. Faria, L.P. Reis, and J. Gargarnta. Knowledge representation in soccer domain: An ontology development. In *Proceedings of the 5th Iberian Conference on Information Systems and Technologies, CISTI 2010*, Santiago de Compostela, 2010.
177. L.P. Reis, R. Lopes, L. Mota, and N. Lau. Playmaker: Graphical definition of formations and setplays. In *Proceedings of the 5th Iberian Conference on Information Systems and Technologies, CISTI 2010*, Santiago de Compostela, 2010.
178. P. Abreu, J. Moura, D.C. Silva, L.P. Reis, and J. Garganta. Football scientia - an automated tool for professional soccer coaches. In *2010 IEEE Conference on Cybernetics and Intelligent Systems, CIS 2010*, pages 126–131, Singapore, 2010.
179. B.M. Faria, L.P. Reis, N. Lau, and G. Castillo. Machine learning algorithms applied to the classification of robotic soccer formations and opponent teams. In *2010 IEEE Conference on Cybernetics and Intelligent Systems, CIS 2010*, pages 344–349, Singapore, 2010.

180. L. Mota, N. Lau, and L.P. Reis. Co-ordination in robocup's 2d simulation league: Setplays as flexible, multi-robot plans. In *2010 IEEE Conference on Robotics, Automation and Mechatronics, RAM 2010*, pages 362–367, Singapore, 2010.
181. Joohyun Kim and Raymond J. Mooney. Generative alignment and semantic parsing for learning from ambiguous supervision. In *Proceedings of the 23rd International Conference on Computational Linguistics (COLING 2010)*, pages 543–551, Beijing, China, August 2010.

2009

182. N. Lau, L.S. Lopes, G. Corrente, and N. Filipe. Multi-robot team coordination through roles, positionings and coordinated procedures. In *2009 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2009*, pages 5841–5848, St. Louis, MO, 2009.
183. Shivaram Kalyanakrishnan and Peter Stone. An empirical analysis of value function-based and policy search reinforcement learning. In *The Eighth International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, pages 749–756. International Foundation for Autonomous Agents and Multiagent Systems, May 2009.
184. S. Devlin, M. Grześ, and D. Kudenko. Reinforcement learning in robocup keepaway with partial observability. In *Web Intelligence and Intelligent Agent Technologies, 2009. WI-IAT '09. IEEE/WIC/ACM International Joint Conferences on*, volume 2, pages 201–208, September 2009.

2008

185. David L. Chen and Raymond J. Mooney. Learning to sportscast: A test of grounded language acquisition. In *Proceedings of the 25th International Conference on Machine Learning (ICML)*, Helsinki, Finland, July 2008.
186. Atil Iscen and Umut Erogul. A new perspective to the keepaway soccer: The takers. In *Proceedings of the 7th international joint conference on Autonomous agents and multiagent systems - Volume 3, AAMAS '08*, pages 1341–1344, Richland, SC, 2008. International Foundation for Autonomous Agents and Multiagent Systems.
187. L. Mota and L.P. Reis. A common framework for co-operative robotics: an open, fault tolerant architecture for multi-league robocup teams. In *International Conference on Simulation, Modeling and Programming for Autonomous Robots (SIMPAN)*, 2008.
188. I. Gonzalez, P. Abreu, and L.P. Reis. Using a datawarehouse to extract knowledge from robocup teams. In *ICEIS 2008 - Proceedings of the 10th International Conference on Enterprise Information Systems*, volume DISI, pages 511–514, Barcelona, 2008.

2007

189. Amin Milani Fard, Vahid Salmani, Mahmoud Naghibzadeh, Sedigheh Khajouie Nejad, and Hamed Ahmadi. Game theory-based data mining technique for strategy making of a soccer

- simulation coach agent. In Heinrich C. Mayr and Dimitris Karagiannis, editors, *Information Systems Technology and its Applications, 6th International Conference ISTA'2007, May 23-25, 2007, Kharkiv, Ukraine*, volume 107 of *LNI*, pages 54–65. GI, 2007.
190. Rodrigo da Silva Guerra, Joschka Boedecker, Shinzo Yanagimachi, Hiroshi Ishiguro, and Minoru Asada. A new minirobotics system for teaching and researching agent-based programming. In V. Uskov, editor, *Proceedings of Computers and Advanced Technology in Education*, October 2007.
 191. M. Riedmiller and T. Gabel. On Experiences in a Complex and Competitive Gaming Domain: Reinforcement Learning Meets RoboCup. In *Proceedings of the 3rd IEEE Symposium on Computational Intelligence and Games (CIG 2007)*, pages 17–23, Honolulu, USA, 2007. IEEE Press.
 192. Shivaram Kalyanakrishnan, Peter Stone, and Yaxin Liu. Model-based reinforcement learning in a complex domain. In Ubbo Visser, Fernando Ribeiro, Takeshi Ohashi, and Frank Dellaert, editors, *RoboCup-2007: Robot Soccer World Cup XI*. Springer Verlag, Berlin, 2008.
 193. Matthew E. Taylor, Shimon Whiteson, and Peter Stone. Temporal difference and policy search methods for reinforcement learning: An empirical comparison. In *Proceedings of the Twenty-Second Conference on Artificial Intelligence*, July 2007. Nectar Track.
 194. Matthew E. Taylor and Peter Stone. Cross-domain transfer for reinforcement learning. In *Proceedings of the Twenty-Fourth International Conference on Machine Learning*, June 2007.
 195. Matthew E. Taylor, Shimon Whiteson, and Peter Stone. Transfer via inter-task mappings in policy search reinforcement learning. In *The Sixth International Joint Conference on Autonomous Agents and Multiagent Systems*, May 2007.
 196. Shivaram Kalyanakrishnan and Peter Stone. Batch reinforcement learning in a complex domain. In *The Sixth International Joint Conference on Autonomous Agents and Multiagent Systems*, May 2007.
 197. L. Mota and L.P. Reis. Setplays: Achieving coordination by the appropriate use of arbitrary pre-defined flexible plans and inter-robot communication. In *First International Conference on Robot Communication and Coordination (ROBOCOMM)*, 2007.
 198. Vadym Kyrlyov and Eddie Hou. While the ball in the digital soccer is rolling, where the non-player characters should go in a defensive situation? In *Proceedings of the Future Play*, 2007.
 199. L. Mota and L.P. Reis. An elementary communication framework for open co-operative robocup soccer teams. In *Proceedings of the 3rd International Workshop on Multi-Agent Robotic Systems - MARS 2007; In Conjunction with ICINCO 2007*, pages 97–101, Angers, 2007.

2006

200. Serguei Razykov and Vadym Kyrylov. While the ball in the digital soccer is rolling, where the non-player characters should go if the team is attacking? In *Proceedings of the Future Play*, 2006.
201. T. Gabel, R. Hafner, S. Lange, M. Lauer, and M. Riedmiller. Bridging the Gap: Learning in the RoboCup Simulation and Midsize League. In *Proceedings of the 7th Portuguese Conference on Automatic Control (Controlo 2006)*, Lisbon, Portugal, September 2006.
202. Gregory Kuhlmann, William B. Knox, and Peter Stone. Know thine enemy: A champion RoboCup coach agent. In *Proceedings of the Twenty-First National Conference on Artificial Intelligence*, pages 1463–68, July 2006.
203. Yaxin Liu and Peter Stone. Value-function-based transfer for reinforcement learning using structure mapping. In *Proceedings of the Twenty-First National Conference on Artificial Intelligence*, pages 415–20, July 2006.
204. Matthew Taylor, Shimon Whiteson, and Peter Stone. Comparing evolutionary and temporal difference methods in a reinforcement learning domain. In *Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1321–28, July 2006.
205. S.K. Golmohammadi, A. Azadeh, and A. Gharehgozli. Action selection in robots based on learning fuzzy cognitive map. In *2006 IEEE International Conference on Industrial Informatics*, pages 731–36, August 2006.
206. A.S. Conceio, A.P. Moreira, P.J. Costa, and L.P. Reis. Architecture of cooperation for multi-robot systems. In *IFAC Proceedings Volumes (IFAC-PapersOnline)*, volume 1, PART 1, pages 45–50, Salvador, BA, 2006.
207. L.P. Reis, N. Lau, F. Reinaldo, N. Cordeiro, and J. Certo. Fc portugal: Development and evaluation of a new robocup rescue team. In *IFAC Proceedings Volumes (IFAC-PapersOnline)*, volume 1, PART 1, pages 57–62, Salvador, BA, 2006.
208. J. Figueiredo, N. Lau, and A. Pereira. Multi-agent debugging and monitoring framework. In *IFAC Proceedings Volumes (IFAC-PapersOnline)*, volume 1, PART 1, pages 114–120, Salvador, BA, 2006.

2005

209. Vahid Salmani, Mahmoud Naghibzadeh, Farid Seifi, and Amirhossein Taherinia. A two-phase mechanism for agent’s action selection in soccer simulation. In Cemal Ardil, editor, *The Second World Enformatika Conference, WEC’05, February 25-27, 2005, Istanbul, Turkey, CDROM*, pages 217–220. Enformatika, Çanakkale, Turkey, 2005.
210. T. Gabel and M. Riedmiller. CBR for State Value Function Approximation in Reinforcement Learning. In *Proceedings of the 6th International Conference on Case-Based Reasoning (ICCBR 2005)*, pages 206–221, Chicago, USA, 2005. Springer.

211. D. Withopf and M. Riedmiller. Comparing Different Methods to Speed-Up Reinforcement Learning in a Complex Domain. In *Proceedings of the IEEE Conference on Systems, Man, and Cybernetics*, pages 3185–3190, Big Island, USA, 2005. IEEE Press.
212. Rohit J. Kate, Yuk Wah Wong, and Raymond J. Mooney. Learning to transform natural to formal languages. In *Proceedings of the Twentieth National Conference on Artificial Intelligence (AAAI-05)*, pages 1062–1068, Pittsburgh, PA, July 2005.
213. Jan Murray and Frieder Stolzenburg. Hybrid state machines with timed synchronization for multi-robot system specification. In Carlos Bento, Amílcar Cardoso, and Gaël Dias, editors, *Proceedings of 12th Portuguese Conference on Artificial Intelligence*, pages 236–241, Covilhã, Portugal, 2005. Institute of Electrical and Electronics Engineers (IEEE), Inc.
214. Reza Zafarani, Mohammad Reza Yazdchi, and Seyed Ali Seyed Salehi. An anfis based method of agent behavior in simulated soccer agents. In *ICTAI '05: Proceedings of the 17th IEEE International Conference on Tools with Artificial Intelligence*, pages 11–18, Washington, DC, USA, 2005. IEEE Computer Society.
215. Reza Zafarani and Mohammad Reza Yazdchi. A neuro-fuzzy method of agent behavior and action selection based on priority/probability modelling. In *IICAI*, pages 2336–2348, 2005.
216. Koji Nakamura and Harukazu Igarashi. Learning of decision making at free kicks using policy gradient methods. In *Proceedings of Robotics and Mechatronics Conference 2005(ROBOMECH2005)*, Kobe, Japan, June 2005. (in Japanese).
217. Matthew E. Taylor, Peter Stone, and Yaxin Liu. Value functions for RL-based behavior transfer: A comparative study. In *Proceedings of the Twentieth National Conference on Artificial Intelligence*, July 2005.
218. Matthew E. Taylor and Peter Stone. Behavior transfer for value-function-based reinforcement learning. In *The Fourth International Joint Conference on Autonomous Agents and Multiagent Systems*, July 2005.

2004

219. Vadym Kyrylov, Martin Greber, and Daniel Wardzynski. Multi-criteria optimization of player positioning in the simulated soccer. In *Proceedings of the 17th International Conference on Multi-Criteria Decision Making*, 2004.
220. Oliver Obst and Markus Rollmann. SPARK – A Generic Simulator for Physical Multiagent Simulations. In Gabriela Lindemann, Jörg Denzinger, Ingo J. Timm, and Rainer Unland, editors, *Multiagent System Technologies – Proceedings of the MATES 2004*, volume 3187 of *Lecture Notes in Artificial Intelligence*, pages 243–257. Springer, September 2004.

2003

221. Frieder Stolzenburg and Toshiaki Arai. From the specification of multiagent systems by statecharts to their formal analysis by model checking: Towards safety-critical applications. In

Michael Schillo, Matthias Klusch, Jörg Müller, and Huaglory Tianfield, editors, *Proceedings of the 1st German Conference on Multiagent System Technologies*, LNAI 2831, pages 131–143, Erfurt, 2003. Springer, Berlin, Heidelberg, New York.

222. Frieder Stolzenburg, Jan Murray, and Karsten Sturm. Multiagent matching algorithms with and without coach. In Michael Schillo, Matthias Klusch, Jörg Müller, and Huaglory Tianfield, editors, *Proceedings of the 1st German Conference on Multiagent System Technologies*, LNAI 2831, pages 192–204, Erfurt, 2003. Springer, Berlin, Heidelberg, New York. Extended journal version in preparation.
223. Jelle R. Kok, Matthijs T. J. Spaan, and Nikos Vlassis. Multi-robot decision making using coordination graphs. In A.T. de Almeida and U. Nunes, editors, *Proceedings of the 11th International Conference on Advanced Robotics, ICAR'03*, pages 1124–1129, Coimbra, Portugal, June 2003.

2002

224. C. Ranze, T. Scholz, T. Wagner, A. Gunter, O. Herzog, O. Hollmann, C. Schlieder, and V. Arlt. A Structure Based Configuration Tool: Drive Solution Designer - DSD. In *Proceedings of the Fourteenth Conference on Innovative Applications of Artificial Intelligence (IAAI-01)*, 2002.
225. Jinyi Yao, Jiang Chen, and Zengqi Sun. An application in robocup combining q-learning with adversarial planning. In *The World Congress on Intelligent Control and Automation(WCICA'02)*, 2002.
226. Jelle R. Kok, Remco de Boer, and Nikos Vlassis. Towards an optimal scoring policy for simulated soccer agents. In M. Gini, W. Shen, C. Torras, and H. Yuasa, editors, *Proc. 7th Int. Conf. on Intelligent Autonomous Systems*, pages 195–198, Marina del Rey, California, March 2002. IOS Press.
227. Frieder Stolzenburg, Oliver Obst, and Jan Murray. Qualitative velocity and ball interception. In Matthias Jarke, Jana Köhler, and Gerhard Lakemeyer, editors, *KI-2002: Advances in Artificial Intelligence – Proceedings of the 25th Annual German Conference on Artificial Intelligence*, LNAI 2479, pages 283–298, Aachen, 2002. Springer, Berlin, Heidelberg, New York.
228. Toshiaki Arai and Frieder Stolzenburg. Multiagent systems specification by UML statecharts aiming at intelligent manufacturing. In *Proceedings of the 1st International Joint Conference on Autonomous Agents & Multi-Agent Systems*, pages 11–18, Bologna, Italy, 2002. ACM Press. Volume 1.
229. Jan Murray. Specifying agents with UML in robotic soccer. In *Proceedings of the 1st International Joint Conference on Autonomous Agents & Multi-Agent Systems*, pages 51–52, Bologna, Italy, 2002. ACM Press. Volume 1.
230. Masayo Udo Tomoharu Nakashima and Hisao Ishibuchi. Fuzzy Q-learning for acquiring the behavior of a soccer agent. In *Proceedings of the Joint 1st Conference on Soft Computing and*

Intelligent Systems and 3rd International Symposium on Advanced Intelligent Systems, pages 241–3, 2002.

231. Patrick Riley, Manuela Veloso, and Gal Kaminka. Towards any-team coaching in adversarial domains. In *Proceedings of the First Autonomous Agents and Multi-Agent Systems Conference*, 2002. (extended abstract).
232. Patrick Riley and Manuela Veloso. Planning for distributed execution through use of probabilistic opponent models. In *Proceedings of the Sixth International Conference on AI Planning and Scheduling (AIPS-2002)*, 2002.
233. Joscha Bach and Matthias Jngel. Using pattern matching on a flexible, horizon-aligned grid for robotic vision. In *Concurrency, Specification and Programming - CSP'2002*, volume 1, pages 11–19, 2002.
234. Jelle R. Kok, Matthijs T. J. Spaan, and Nikos Vlassis. An approach to noncommunicative multiagent coordination in continuous domains. In *Benelearn 2002: Proceedings of the Twelfth Belgian-Dutch Conference on Machine Learning*, Utrecht, The Netherlands, December 2002.

2001

235. Peter Stone and Richard S. Sutton. Scaling Reinforcement Learning toward RoboCup Soccer. In *Proceedings of the Eighteenth International Conference on Machine Learning*, 2001.
236. Kalyviotis N. and Hu H. A Co-operative Framework for Strategic Planning. In *Proceedings of Towards Intelligent Mobile Robots '01*, Manchester, 2001.
237. Fredrik Heintz, Johan Kummeneje, and Paul Scerri. Using Simulated RoboCup to Teach AI in Undergraduate Education. In Henrik Hautorp Lund, Brian Mayoh, and John Perram, editors, *Seventh Scandinavian Conference on Artificial Intelligence (SCAI2001)*, pages 13–21, Amsterdam, 2001. IOS Press.
238. Boldur Barbat, Ciprian Candea, and Constantin Zamfirescu. Holons and Agents in Robotic Teams. A Synergistic approach. In *Proceedings of ENAIS'2001*, pages 654–660, Dubai, 2001.
239. Peter Stone and David McAllester. An Architecture for Action Selection in Robotic Soccer. In *Proceedings of the Fifth International Conference on Autonomous Agents*, 2001.
240. Kostiadis K. and Hu H. KaBaGe-RL: Kanerva Based Generalisation and Reinforcement Learning for Possession Football. In *Proceedings IEEE/RSJ International Conference on Intelligent Robots & Systems*, Hawaii, October 2001.

2000

241. Peter Stone, Patrick Riley, and Manuela Veloso. Defining and Using Ideal Teammate and Opponent Agent Models. In *Proceedings of the Twelfth Annual Conference on Innovative Applications of Artificial Intelligence*, 2000.

- 242. Peter Stone. TPOT-RL Applied to Network Routing. In *Proceedings of the Seventeenth International Conference on Machine Learning*, 2000.
- 243. Jan Wendler, Andrej Georgi, Helmut Myritz, Hans-Dieter Burkhard, and Steffen Brüggert. Fehlertolerante Selbstlokalisierung mit Hilfe von Fallbasiertem Schließen. In *Tagungsband Robotik 2000*, volume 1552. VDI-Bericht, 2000. (in German).
- 244. M. Lauer and M. Riedmiller. An Algorithm for Distributed Reinforcement Learning in Cooperative Multi-Agent Systems. In *Proceedings of International Conference on Machine Learning, ICML '00*, pages 535–542, Stanford, CA, 2000.
- 245. Kostiadis K., Hunter M., and Hu H. The Use of Design Patterns for the Development of Multi-Agent Systems. In *Proceedings IEEE International Conference on Systems, Man, and Cybernetics*, Tennessee, October 2000.

1999

- 246. Klaus Dorer. Behavior Networks for Continuous Domains using Situation-Dependent Motivations. In *Proceedings of the 16th International Joint Conference on Artificial Intelligence (IJCAI'99)*, pages 1233–1238, Stockholm, Sweden, 1999. Morgan Kaufmann.
- 247. Manuela Veloso, Peter Stone, and Michael Bowling. Anticipation as a Key for Collaboration in a Team of Agents: A Case Study in Robotic Soccer. In *Proceedings of SPIE Sensor Fusion and Decentralized Control in Robotic Systems II*, volume 3839, Boston, September 1999.
- 248. Peter Stone and Manuela Veloso. Team-Partitioned, Opaque-Transition Reinforcement Learning. In *Proceedings of the Third Annual Conference on Autonomous Agents*, pages 206–212. ACM Press, May 1999.
- 249. Hu H., Kostiadis K., and Liu Z. Coordination and Learning in a Team of Mobile Robots. In *Proceedings IASTED Robotics & Applications Conference*, California, October 1999.
- 250. Kostiadis K. and Hu H. Reinforcement learning and co-operation in a simulated multi-agent system. In *Proceedings IEEE/RSJ International Conference on Intelligent Robots & Systems*, Korea, October 1999.
- 251. S. Riedmiller and M. Riedmiller. A neural reinforcement learning approach to learn local dispatching policies in production scheduling. In *Proceedings of International Joint Conference on Artificial Intelligence, ICJAI'99*, Stockholm, 1999.
- 252. Ciprian CANDEA, Marius OANCEA, and Daniel VOLOVICI. Emulating real soccer. In *Proceedings of the International Conference Beyond 2000 Sibiu*, pages 35–38, 1999.
- 253. Gabriela Simona IOZON and Ciprian CANDEA. RoboCup '99. Level and Trend. In *Proceedings of the International Conference Beyond 2000 Sibiu*, pages 61–64, 1999.
- 254. Markus Hannebauer, Jan Wendler, and Pascal Müller-Gugenberger. Rapid Concurrent Software Engineering in Competitive Situations. In P. K. Chawdhry, P. Ghodous, and D. Vandorpe, editors, *Advances in Concurrent Engineering (CE-99)*, pages 225–232. Technomic Publishing, 1999.

- 255. Stacy C. Marsella, Jafar Adibi, Yaser Al-Onaizan, Gal A. Kaminka, Ion Muslea, Marcello Tallis, and Milind Tambe. On being a teammate: Experiences acquired in the design of robocup teams. In *Proceedings of the Third International Conference on Autonomous Agents (Agents-99)*, Seattle, WA, 1999. ACM Press.
- 256. Milind Tambe, Gal A. Kaminka, Stacy C. Marsella, Ion Muslea, and Taylor Raines. Two fielded teams and two experts: A robocup challenge response from the trenches. In *Proceedings of the Sixteenth International Joint Conference on Artificial Intelligence*, volume 1, pages 276–281, August 1999.

1998

- 257. Peter Stone and Manuela Veloso. Using Decision Tree Confidence Factors for Multiagent Control. In *Proceedings of the Second International Conference on Autonomous Agents*, 1998.
- 258. J. Lubbers, R.R Spaansa, E.P.M. Corten, and F.C.A. Groen. Aiacs: A robotic soccer team using the priority/confidence model. In *Xth NetherlandsBelgium Conference on Artificial Intelligence*, pages 127–135, Amsterdam, 1998.
- 259. Hideyuki Nakashima and Itsuki Noda. Dynamic Subsumption Architecture for Programming Intelligent Agents. In *Proc. of International Conf. on Multi-Agent Systems 98*, pages 190–197. AAAI Press, 1998.
- 260. Itsuki Noda and Hideyuki Nakashima. Dynamic Subsumption Architecture and Player Programming. In *Proc. of The 3rd Conference on JSME Robotics and Mechatronics Symposia*, pages 1–6. JSME, Apr. 1998.
- 261. Kumiko TANAKA-Ishii, Itsuki NODA, Ian FRANK, Hideyuki NAKASHIMA, Koiti HASIDA, and Hitoshi MATSUBARA. MIKE: An Automatic Commentary System for Soccer. In Yves Demazeau, editor, *Proc. of Third International Conference on Multi-Agent Systems*, pages 285–292, July 1998.
- 262. K. Tanaka-Ishii, K. Hasida, and I. Noda. Reactive Content Selection in the Generation of Real-time Soccer Commentary. In *Proceedings of COLING-98*, August 1998.
- 263. Itsuki NODA. Researches of Multi-agent Systems using Soccer Server. In *Proceedings of PRIMA '98*, November 1998.

1997

- 264. Hiroaki Kitano, Milind Tambe, Peter Stone, Manuela Veloso, Silvia Coradeschi, Eiichi Osawa, Hitoshi Matsubara, Itsuki Noda, and Minoru Asada. The RoboCup Synthetic Agent Challenge 97. In *Proceedings of the Fifteenth International Joint Conference on Artificial Intelligence*, pages 24–29, San Francisco, CA, 1997. Morgan Kaufmann.

1996

265. Itsuki NODA, Hitoshi MATSUBARA, and Kazuo HIRAKI. Learning Cooperative Behavior in Multi-agent Environment — a case study of choice of play-plans in soccer —. In Norman Foo and Randy Goebel, editors, *PRICAI'96: Topics in Artificial Intelligence (Proc. of 4th Pacific Rim International Conference on Artificial Intelligence, Cairns, Australia)*, pages 570–579. Springer, Aug. 1996.
266. Itsuki Noda. Multiagent Soccer on Gaea. In *Proc. of the International Symposium on New Models for Software Architecture '96*, pages 9–14, Dec. 1996.
267. Nobuhiro Ito, Hideki Sato, Tatsuya Hayashi, and Naohiro Ishii. An Agent Model for Objects with Multiple Aspects. In M. H. Hamza, editor, *ARTIFICIAL INTELLIGENCE, EXPERT SYSTEMS AND NEURAL NETWORKS*, pages 330–333. IASTED, Acta Press, 1996.
268. Peter Stone and Manuela Veloso. Beating a Defender in Robotic Soccer: Memory-Based Learning of a Continuous Function. In David S. Touretzky, Michael C. Mozer, and Michael E. Hasselmo, editors, *Advances in Neural Information Processing Systems 8*, pages 896–902, Cambridge, MA, 1996. MIT Press.

Dissertations

269. Joohyun Kim. *Grounded Language Learning Models for Ambiguous Supervision*. PhD thesis, Department of Computer Science, University of Texas at Austin, August 2013.
270. David L. Chen. *Learning Language from Ambiguous Perceptual Context*. PhD thesis, Department of Computer Science, University of Texas at Austin, May 2012.
271. Shivaram Kalyanakrishnan. *Learning Methods for Sequential Decision Making with Imperfect Representations*. PhD thesis, Department of Computer Science, The University of Texas at Austin, Austin, Texas, USA, December 2011. Published as UT Austin Computer Science Technical Report TR-11-41.
272. Rodrigo da Silva Guerra. *Using Insect/Robot Mixed Society as a Tool for Animal Behavior Studies*. PhD thesis, Osaka University, 2-1 Yamadaoka, Suita, Osaka, Japan, June 2010.
273. Frieder Stolzenburg. Multiagent systems and RoboCup: Specification, analysis, and theoretical results. Habilitation, Universität Koblenz-Landau, Koblenz, 2005. Reviewers: Armin Cremers, Ulrich Furbach, and Klaus Troitzsch.
274. Peter Stone. *Layered Learning in Multi-Agent Systems*. PhD thesis, Computer Science Department, Carnegie Mellon University, Pittsburgh, PA, December 1998. Available as technical report CMU-CS-98-187.

Masters Theses

275. Christiaan Meijer. Getting a kick out of humanoid robotics : Using reinforcement learning to shape a soccer kick. Master's thesis, Universiteit van Amsterdam, the Netherlands, July 2012.
276. Pooyan Fazli. Design and implementing a coach agent in robotics soccer simulation testbed for teamwork improving. Master's thesis in artificial intelligence, Department of Computer Science, Amirkabir University of Technology(Tehran Polytechnic), Tehran, Iran, August 2006.
277. Michael Gollin. Implementation einer Bibliothek fr Reinforcement Learning und Anwendung in der RoboCup Simulationsliga. diploma thesis, Institut fr Informatik, Humboldt Universität zu Berlin, 2005.
278. Christina Bell. SimLex - Experience Management fr die Simulationsliga des RoboCups. diploma thesis, Institut fr Informatik, Humboldt Universität zu Berlin, March 2004.
279. Thomas Meinert and Gerd Sander. Der intention agent – konzepte zur modellierung langfristigen kooperativen verhaltens. diploma thesis, Institut fr Informatik, Humboldt Universität zu Berlin, 2001.
280. Björn Bremer. Kommunikation zwischen Agenten im RoboCup. Diplomarbeit, Fachbereich Informatik, Universität Koblenz-Landau, 2001.
281. Jan Murray. Soccer agents think in UML. Diplomarbeit, Fachbereich Informatik, Universität Koblenz-Landau, 2001.
282. Marco Dettori. Qualitatives rumliches Schließen im RoboCup. Diplomarbeit, Fachbereich Informatik, Universität Koblenz-Landau, 2002.
283. Timo Steffens. Feature-based declarative opponent-modelling in multi-agent systems. Master's thesis, Institute of Cognitive Science Osnabrück, 2002.
284. Philipp Hügelmeier. Strategische kommunikation am beispiel von robocup. Master's thesis, Institute of Cognitive Science Osnabrück, 2002.
285. Uwe Thomas Müller. Beschreiben und Erkennen von Verhaltensmustern beim simulierten Fußballspiel: Diplomarbeit. diploma thesis, Institut fr Informatik, Humboldt Universität zu Berlin, 2002.
286. Remco de Boer and Jelle R. Kok. The Incremental Development of a Synthetic Multi-Agent System: The UvA Trilearn 2001 Robotic Soccer Simulation Team. Master's thesis, University of Amsterdam, The Netherlands, February 2002.
287. Casper van der Heiden. A Robocup evaluator. Master thesis informatics, University of Amsterdam, May 2000.
288. Robert-Jan van Seijen. Running-to-kicking transition in real-time virtual soccer. Master thesis artificial intelligence, University of Amsterdam, May 2000.

- 289. Jan Lubbers and Rogier Spaans. The priority/ Confidence Model: A framework for Soccer Agents. Master thesis artificial intelligence, University of Amsterdam, September 2000.
- 290. Fredrik Heintz. RoboSoc a System for Developing RoboCup Agents for Educational Use. Master's thesis, IDA 00/26, Linköping university, Sweden, March 2000.
- 291. Gerben Michiel Venekamp. Training autonomous agents by genetic algorithms. Master thesis artificial intelligence, University of Amsterdam, March 1999.
- 292. Pascal Müller-Gugenberger and Jan Wendler. AT Humboldt 98 — Design, Implementierung und Evaluierung eines Multiagentensystems für den RoboCup-98 mittels einer BDI-Architektur. Diploma thesis, Humboldt University Berlin, Berlin, Germany, October 1998. (in German).

Magazine Articles

2011

- 293. Matthew E. Taylor and Peter Stone. An introduction to inter-task transfer for reinforcement learning. *AI Magazine*, 32(1):15–34, 2011.

2006

- 294. A. Miene and T. Wagner. Static and Dynamic Qualitative Spatial Knowledge Representation for Physical Domains. *KI - Künstliche Intelligenz*, Vol. 2/06:pp. 109–116, 2006.
- 295. Hans-Dieter Burkhard, Ubbo Visser, Matthias Jungel, Ansgar Bredenfeld, and Thomas Christaller. Herausforderung für ki und robotik. *Künstliche Intelligenz*, 20(2):5–11, 2006.
- 296. Ubbo Visser and Hans-Dieter Burkhard. Robocup 2006: achievements and goals for the future. *AI Magazine*, 28(2), 2007.

2005

- 297. Pedro Lima, Lus Custdio, Levent Akin, Adam Jacoff, Gerhard Kraezschmar, Beng Kiat Ng, Oliver Obst, Thomas Rfer, Yasutake Takahashi, and Changjiu Zhou. Robocup 2004 competitions and symposium: A small kick for robots, a giant score for science. *AI Magazine*, 2005.

2004

- 298. Ubbo Visser and Patrick Doherty. Issues in designing physical agents for dynamic real-time environments world modeling, planning, learning, and communicating. *AI Mag.*, 25(2):137–138, June 2004.

2003

299. Minoru Asada, Oliver Obst, Daniel Polani, Brett Browning, Andrea Bonarini, Masahiro Fujita, Thomas Christaller, Tomoichi Takahashi, Satoshi Tadokoro, Elizabeth Sklar, and Gal A. Kaminka. An overview of robocup-2002 fukuoka/busan. *AI Magazine*, 24(2):21–40, Summer 2003.

2002

300. Hans-Dieter Burkhard. Real time deliberation in autonomous robots. *Fundamenta Informaticae*, 51, 2002.
301. H.-D. Burkhard, D. Duhaut, M. Fujita, P. Lima, R. Murphy, and R. Rojas. The road to RoboCup 2050. *IEEE Robotics and Automation Magazine*, 9, 2002.
302. Manuela Veloso, Tucker Balch, Peter Stone, Hiroaki Kitano, Fuminori Yamasaki, Ken Endo, Minoru Asada, M. Jamzad, B. S. Sadjad, V. S. Mirrokni, M. Kazemi, H. Chitsaz, A. Heydarnoori, M. T. Hajiaghai, and E. Chiniforooshan. Robocup-2001: The fifth robotic soccer world championships. *AI Magazine*, 23(1):55–68, 2002.

2001

303. Peter Stone (ed.), Minoru Asada, Tucker Balch, Raffaello D’Andrea, Masahiro Fujita, Bernhard Hengst, Gerhard Kraetzschmar, Pedro Lima, Nuno Lau, Henrik Lund, Daniel Polani, Paul Scerri, Satoshi Tadokoro, Thilo Weigel, and Gordon Wyeth. RoboCup-2000: The Fourth Robotic Soccer World Championships. *AI Magazine*, 22(1), 2001.

2000

304. Ulrich Furbach, Oliver Obst, and Frieder Stolzenburg. Intelligente Agenten und KI. *LOG IN – Informatische Bildung und Computer in der Schule*, 20(3/4):17–21, 2000.
305. Silvia Coradeschi, Lars Karlsson, Peter Stone, Tucker Balch, Gerhard Kraetzschmar, and Minoru Asada. Overview of RoboCup-99. *AI Magazine*, 21(3), 2000.
306. Peter Stone, Patrick Riley, and Manuela Veloso. The CMUnited-99 Champion Simulator Team. *AI Magazine*, 21(3), 2000.
307. Peter Stone, Manuela Veloso, and Patrick Riley. CMUnited-98 Team: RoboCup-98 Simulator World Champion Team. *AI Magazine*, 21(1), 2000.

1999

308. Itsuki NODA. RoboCup Simulation League and Soccer Server (in japanese). *Telecommunications*, 62(629):28–34, May 1999.
309. Oliver Obst and Frieder Stolzenburg. Der RoboCup während der IJCAI’99. *KI*, 4/99:66–67, 1999. Report on the RoboCup World Championship.

1998

310. Hans-Dieter Burkhard, Markus Hannebauer, and Jan Wendler. Computer spielen Fußball. *Spektrum der Wissenschaft*, (1):20–23, 1998. (in German).
311. Oliver Obst. Robocup: FC–Linux – mit Linux zur Fußball–WM. *Linux-Magazin*, 8:48–51, 1998.
312. Hans-Dieter Burkhard, Markus Hannebauer, and Jan Wendler. BDI Deliberation in Artificial Soccer. *AI Magazine*, pages 87–93, Fall 1998.
313. Peter Baumgartner, Ingo Dahn, Jürgen Dix, Ulrich Furbach, Micha Kühn, Frieder Stolzenburg, and Bernd Thomas. Automated deduction: A technological point of view. *KI*, 4/98:7–14, 1998.

1997

314. Hans-Dieter Burkhard, Markus Hannebauer, and Jan Wendler. Roboter und Computer spielen Fußball. *KI*, (4):70–76, 1997. (in German).
315. Hitoshi MATSUBARA, Itsuki NODA, and Kazuo HIRAKI. Toward team-play learning in Soccer: shoot or pass? Technical Report SIG-PPAI-9503-3, Japanese Society for Artificial Intelligence (JSAI), Feb. 1996.
316. Itsuki NODA and Hideyuki Nakashima. Multi Agent Programming. *Bulletin of the Electrotechnical Laboratory*, 59(3):179–187, March 1995. (in Japanese).

Workshops

2013

317. Patrick MacAlpine, Elad Liebman, and Peter Stone. Simultaneous learning and reshaping of an approximated optimization task. In *AAMAS Adaptive Learning Agents (ALA) Workshop*, May 2013.
318. V. Hugel and N. Jouandeau. Automatic generation of humanoid s geometric model parameters. In *Proceedings of 17th annual RoboCup International Symposium 2013 (RCUP-2013)*, 2013.

2012

319. Aijun Bai, Feng Wu, and Xiaoping Chen. Online planning for large mdps with maxq decomposition. In *Proceedings of the Autonomous Robots and Multirobot Systems workshop (at AAMAS-12)*, Jun 2012.

- 320. V. Hugel and N. Jouandeau. Walking patterns for real time path planning simulation of humanoids. In *21st IEEE International Symposium on Robot and Human Interactive Communication, (IEEE RO-MAN 2012)*, 2012.
- 321. Patrick MacAlpine and Peter Stone. Using dynamic rewards to learn a fully holonomic bipedal walk. In *AAMAS Adaptive Learning Agents (ALA) Workshop*, June 2012.
- 322. Saminda Abeyruwan, Andreas Seekircher, and Ubbo Visser. Dynamic Role Assignment using General Value Functions. In Sven Behnke, Thomas Röfer, and Ubbo Visser, editors, *IEEE Humanoid Robots, HRS workshop*, Osaka, Japan, 2012. IEEE.
- 323. Luiz A. Celiberto Jr., Jackson P. Matsuura, Ramon Lopez de Mantaras, and Reinaldo A. C. Bianchi. Reinforcement learning with case-based heuristics for robocup soccer keepaway. *Brazilian Robotics Symposium and Latin American Robotics Symposium (SBR-LARS)*, 0:7–13, 2012.

2011

- 324. Andreas Seekircher, Saminda Abeyruwan, and Ubbo Visser. Accurate ball tracking with extended kalman filters as a prerequisite for a high-level behavior with reinforcement learning. In S. Behnke, T. Roefer, and P. Stone, editors, *The 6th Workshop on Humanoid Soccer Robots at Humanoid Conference, Bled (Slovenia)*, 2011.

2010

- 325. S. Devlin, M. Grześ, and D. Kudenko. Multi-agent reinforcement learning with reward shaping for keepaway takers. *Adaptive and Learning Agents*, 2010.

2009

- 326. Ian Fasel, Michael Quinlan, and Peter Stone. A task specification language for bootstrap learning. In *AAAI Spring 2009 Symposium on Agents that Learn from Human Teachers*, March 2009.
- 327. Rodrigo da Silva Guerra, Hitoshi Aonuma, Koh Hosoda, and Minoru Asada. Using micro-robots as a tool for insect behavior studies. In *IROS Mobiligence Workshop: Social Adaptive Functions in Animals and Multi-Agent Systems, Proceedings of the 2009 IEEE/RSJ international conference on Intelligent robots and systems*, 2009.

2008

- 328. Reinhard Gerndt, Carsten Schridde, and Rodrigo da Silva Guerra. On the aspects of simulation in the robocup mixed reality soccer systems. In *Workshop Proceedings of SIMPAR 2008*, pages 159–166, November 2008.

2007

329. L. Mota and L.P. Reis. An elementary communication framework for open co-operative robocup soccer teams. In *The Third International Workshop on Multi-Agent Robotic Systems (MARS)*, 2007.
330. R. Gimenes, L. Mota, L. P. Reis, N. Lau, and J. Certo. Simulation meets reality: A cooperative approach to robocup's physical visualization soccer league. In *Second Workshop on Intelligent Robotics (IROBOT 2007), 13th Portuguese Conference on Artificial Intelligence (EPIA)*, 2007.
331. Matthew E. Taylor and Peter Stone. Representation transfer for reinforcement learning. In *AAAI 2007 Fall Symposium on Computational Approaches to Representation Change during Learning and Development*, November 2007.
332. Matthew E. Taylor, Gregory Kuhlmann, and Peter Stone. Accelerating search with transferred heuristics. In *ICAPS-07 workshop on AI Planning and Learning*, September 2007.
333. Michael Quinlan, Oliver Obst, and Stephan Chalup. Towards autonomous strategy decisions in the RoboCup four-legged league. In *Proceedings of the Seventh IJCAI International Workshop on Nonmonotonic Reasoning, Action and Change*, 2007.
334. Tobias Jung and Daniel Polani. Learning robocup-keepaway with kernels. In Neil Lawrence, Anton Schwaighofer, and Joaquin Quionero Candela, editors, *Gaussian Processes in Practice*, volume 1 of *JMLR Workshop and Conference Proceedings*, pages 33–57, 2007.
335. Ulrich Furbach, Jan Murray, Falk Schmidberger, and Frieder Stolzenburg. Hybrid multiagent systems with timed synchronization – specification and model checking. In *Proceedings of 5th International Workshop on Programming Multi-Agent Systems to be held with 6th International Joint Conference on Autonomous Agents & Multi-Agent Systems*, Honolulu, Hawaii, 2007.
336. Carlos Bustamante, Cesar Flores, and Leonardo Garrido. A physics model for the robocup 3d soccer simulation. In *Agent-Directed Simulation Symposium, Spring Simulation Multiconference, Simulation Series*, volume 1, pages 151–158, march 2007.
337. Rodrigo da Silva Guerra, Joschka Boedecker, Shinzo Yanagimachi, and Minoru Asada. Introducing a new minirobotics platform for research and edutainment. In *Proceedings of the 4th International Symposium on Autonomous Minirobots for Research and Edutainment*, volume 216 of *HNI-Verlagsschriftenreihe*. Heinz Nixdorf Institut, Universität Paderborn, October 2007.

2006

338. Rodrigo da Silva Guerra, Joschka Boedecker, Norbert Mayer, Shinzo Yanagimachi, Yasuji Hirose, Kazuhiko Yoshikawa, Masaaki Namekawa, and Minoru Asada. Citizen eco-be! league: bringing new flexibility for research and education to robocup. In *Proceedings of the 23rd Meeting of Special Interest Group on AI Challenges*, pages 13–18. Japanese Society for Artificial Intelligence, May 2006.

- 339. Rodrigo da Silva Guerra, Kazunori Yamauchi, Taro Maekawa, Minoru Asada, Yasuji Hiro-sawa, Masaaki Namekawa, Kazuhiko Yoshikawa, Shinzo Yanagimachi, Sadao Masubuchi, and Ken Nishimura. Citizen eco-be! and the robocup physical visualization league. In *Proceedings of the Micromechatronics Technical Lectures 2006*, 2006.
- 340. Rodrigo da Silva Guerra, Joschka Boedecker, Hiroshi Ishiguro, and Minoru Asada. Physical visualization sub-league: A new platform for research and edutainment. In *Proceedings of the 25th Meeting of Special Interest Group on AI Challenges*, pages 15–20. Japanese Society for Artificial Intelligence, May 2007.
- 341. Rodrigo da Silva Guerra, Joschka Boedecker, and Minoru Asada. Successful teaching of agent-based programming to novice undergrads in a robotic soccer crash course. In *Proceedings of the 25th Meeting of Special Interest Group on AI Challenges*, pages 21–26. Japanese Society for Artificial Intelligence, May 2007.
- 342. Matthew E. Taylor, Shimon Whiteson, and Peter Stone. Transfer learning for policy search methods. In *ICML workshop on Structural Knowledge Transfer for Machine Learning*, June 2006.

2005

- 343. Ubbo Visser, Gerhard Lakemeyer, Manuela Veloso, and George Vachtsevanos. *Proceedings of IJCAI-05 Workshop on Agents in Real-Time and Dynamic Environments*. IJCAI, 2005. rc.
- 344. Ramin Fathzadeh, Vahid Mokhtari, Abolfazl T. Haghghat, and Morteza Mousakhani. Using expert system in robocup soccer coach simulation: An opponent modeling approach. In *Proceedings second IEEE Latin-American Robotics Symposium*, Sao luis - Maranhao, Brazil, September 2005.
- 345. Reza Zafarani and Mohammad Reza Yazdchi. Accurate neuro-fuzzy action selection in multi-agent systems. In *Proceedings of Eighth Pacific Rim International Workshop on Multi-Agents (PRIMA 2005)*, Kuala Lumpur, Malaysia, 2005.
- 346. Frieder Stolzenburg. Multiagent systems and decision making. In *Proceedings of Joint Workshop on Decision Support Systems, Experimental Economics & e-Participation*, page 126, Graz, Austria, 2005.
- 347. Hans Dieter Burkhard. Programming Bounded Rationality. In *Proceedings of the International Workshop on Monitoring, Security, and Rescue Techniques in Multiagent Systems (MSRAS 2004)*, pages 347–362. Springer, 2005.
- 348. Oliver Obst. Using a planner for coordination of multiagent team behavior. In Rafael Heitor Bordini, Mehdi Dastani, Jrgen Dix, and Amal El Fallah Seghrouchni, editors, *Proceedings of ProMAS 2005*, 2005.
- 349. Timo Steffens. Similarity-based opponent modelling using imperfect domain theories. In Graham Kendall and Simon Lucas, editors, *IEEE 2005 Symposium on Computational Intelligence and Games (CIG'05)*, pages 285–291, 2005.

- 350. Timo Steffens. Knowledge-intensive similarity-based opponent modelling. In David W. Aha, editor, *Proceedings of the IJCAI Workshop on Representation, Reasoning, and Learning in Computer Games*, 2005.
- 351. T. Wagner and K. Huebner. An Egocentric Qualitative Spatial Knowledge Representation Based on Ordering Information. In *ECAI-04, Workshop on Agents in Real-Time and Dynamic Environments*, 2005.

2004

- 352. T. Wagner, U. Visser, and O. Herzog. Egocentric Qualitative Knowledge Representation for Physical Robots. In *AAAI-Spring Symposium-04, Knowledge Representation and Ontologies for Autonomous Systems, Technical Report SS-04-04*, 2004.
- 353. T. Wagner, U. Visser, O. Herzog, and A. Lattner. Qualitative Egocentric Updating for Autonomous Automobiles. In *The 5th IFAC/EURON Symposium on Intelligent Autonomous Vehicles (IAV 2004)*. Elsevier, 2004.
- 354. Frank Dylla, Alexander Ferrein, Gerhard Lakemeyer, Jan Murray, Oliver Obst, Thomas Röfer, Frieder Stolzenburg, Ubbo Visser, and Thomas Wagner. Towards a league-independent qualitative soccer theory for RoboCup. In Hans Utz, Freek Stulp, and Bernhard Nebel, editors, *Proceedings of the Workshop 9 Methods and Technology for Empirical Evaluation of Multi-Agent Systems and Multi-Robot Teams in Conjunction with KI 2004*, pages 43–57, Ulm, 2004.
- 355. Achim Rettinger. Learning from Recorded Games: A Scoring Policy for Simulated Soccer Agents. In Ubbo Visser, editor, *Proceedings of the Workshop on Agents in dynamic and real-time environments during ECAI 2004*, August 2004.
- 356. Klaus Dorer. Extended behavior networks for behavior selection in dynamic and continuous domains. In *Proceedings of the ECAI-2004 workshop Agents in dynamic domains*, Valencia, Spain, 2004.
- 357. Timo Steffens. Adapting similarity-measures to agent-types in opponent-modelling. In Mathias Bauer, Piotr Gmytrasiewicz, Gal A. Kaminka, and David V. Pynadath, editors, *Workshop on Modeling Other Agents from Observations at AAMAS 2004*, pages 125–128, 2004.
- 358. Gregory Kuhlmann, Peter Stone, Raymond Mooney, and Jude Shavlik. Guiding a reinforcement learner with natural language advice: Initial results in RoboCup soccer. In *The AAAI-2004 Workshop on Supervisory Control of Learning and Adaptive Systems*, July 2004.

2003

- 359. Heni Ben Amor, Oliver Obst, and Jan Murray. Fast, neat and under control: Inverse steering behaviors for physical autonomous agents. *Fachberichte Informatik 12–2003*, Universität Koblenz-Landau, Universität Koblenz-Landau, Institut für Informatik, Rheinau 1, D-56075 Koblenz, 2003.

2002

360. Joscha Bach, Ralf Berger, and Hans-Dieter Burkhard. Using a deliberative architecture for robotic soccer. In *KI 2002, Workshop-Proceedings of MAI 2002*, pages 105–115, 2002.
361. Joscha Bach. Enhancing perception and planning of software agents with emotion and acquired hierarchical categories. In *KI 2002, Workshop-Proceedings of MASHO 2002*, pages 3–12, 2002.
362. H.-D. Burkhard, J. Bach, R. Berger, B. Brunswiek, and M. Gollin. Mental models for robot control. In M. Beetz et al., editor, *Plan Based Control of Robotic Agents*, number 2466 in Lecture Notes in Artificial Intelligence, pages 71–88. Springer, 2002.
363. Frank Dylla, Alexander Ferrein, and Gerhard Lakemeyer. Acting and Deliberating using Golog in Robotic Soccer – A Hybrid Approach. In *Proc. 3rd International Cognitive Robotics Workshop (CogRob 2002)*. AAAI Press, 2002.
364. Peter Stone. Multiagent competitions and research: Lessons from RoboCup and TAC. In *Proceedings of the RoboCup-2002 Symposium*, Fukuoka, Japan, June 2002.

2001

365. Frieder Stolzenburg. Reasoning about cognitive robotics systems. In Reinhard Moratz and Bernhard Nebel, editors, *Themenkolloquium Kognitive Robotik und Raumrepräsentation des DFG-Schwerpunktprogramms Raumkognition (Spatial Cognition)*, Hamburg, 2001.
366. Luis P. Reis, Nuno Lau, and E. Oliveira. Situation Based Strategic Positioning for Coordinating a Team of Homogeneous Agents. In Enrico Pagello Markus Hannebauer, Jan Wendler, editor, *Balancing Reactivity and Social Deliberation in Multi-Agent System*, LNCS, pages 175–197. Springer Verlag, 2001.
367. Jan Wendler, Gal Kaminka, and Manuela Veloso. Automatically Improving Team Coordination by using Models of Teammates and Opponents. In *The 2001 AAAI Fall Symposium Series, Symposium: Intent Inference for Collaborative Tasks*, 2001.
368. Patrick Riley and Manuela Veloso. Planning for Distributed Execution Through Use of Probabilistic Opponent Models. In *IJCAI-2001 Workshop PRO-2: Planning under Uncertainty and Incomplete Information*, 2001.

2000

369. Hans-Dieter Burkhard Markus Hannebauer, Jan Wendler, Helmut Myritz, Gerd Sander, and Thomas Meinert. BDI design principles and cooperative implementation – a report on robocup agents. In *Proceedings of the IJCAI-99 Third International Workshop on RoboCup*, 2000.
370. Gerd Sander. The intention-agent - a new approach for a solution of longterm cooperation in robocup. In *Proc. Workshop Concurrency, Specification and Programming.*, number 140(II) in Informatik-Bericht der HU Berlin, pages 235–239, 2000.

- 371. M. Asada, A. Birk, E. Pagello, M. Fujita, I. Noda, S. Tadokoro D. Duhaut, P. Stone, M. Veloso, T. Balch, H. Kitano, and B. Thomas. Progress in RoboCup soccer research in 2000. In *Proceedings of the 2000 International Symposium on Experimental Robotics*, Honolulu, 2000.
- 372. Patrick Riley and Manuela Veloso. On Behavior Classification in Adversarial Environments. In *Proceedings of the Fifth International Symposium on Distributed Autonomous Robotic Systems (DARS-2000)*, 2000.
- 373. Itsuki Noda and Peter Stone. The RoboCup Soccer Server and CMUnited Clients: Implemented Infrastructure for MAS Research. In Tom Wagner and Omer F. Rana, editors, *Workshop Note on Infrastructure for Scalable Multi-agent Systems (Autonomous Agents 2000 Workshop 13)*, Barcelona, Spain, Jun. 2000.

1999

- 374. Frieder Stolzenburg. Declarativity and constraints in a multi-agent system architecture for spatial reasoning. In Christoph Schlieder, editor, *Themenkolloquium Räumliche Inferenz des DFG-Schwerpunktprogramms Raumkognition (Spatial Cognition): Beiträge zur Gestaltung der Schnittstelle zwischen maschinellem und mentalem Problemlösen*, Freiburg, 1999.
- 375. Jan Murray, Frieder Stolzenburg, Oliver Obst, and Björn Bremer. RoboLog Koblenz: Complex agent scripts implemented in logic. In Stefan Sablatnög and Stefan Enderle, editors, *Proceedings of the Workshop RoboCup during KI'99 in Bonn*, pages 12–25, 1999. SFB 527 Report 1999/12, Universität Ulm.
- 376. Mikhail Prokopenko and Marc Butler. Tactical Reasoning in Synthetic Multi-Agent Systems: a Case Study. In *Proceedings of the IJCAI-99 Workshop on Nonmonotonic Reasoning, Action and Change*, pages 57–64, 1999.
- 377. Mikhail Prokopenko. On Situated Reasoning in Multi-Agent Systems. In *AAAI Technical Report SS-99-05, the AAAI 1999 Spring Symposium on Hybrid Systems and AI: Modeling, Analysis and Control of Discrete + Continuous Systems*, pages 158–163, Stanford, 1999.
- 378. Gal A. Kaminka. Preliminary short report on the robocup 1998 adaptive teamwork evaluation. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*, pages 345–356. Springer-Verlag, 2000.
- 379. Taylor Raines, Milind Tambe, and Stacy Marsella. Automated assistants to aid humans in understanding team behaviors. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
- 380. Tomoichi Takahashi. Logmonitor: From player's action analysis to collaboration analysis and advice on formation. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
- 381. Kumiko Tanaka-Ishii, Ian Frank, Itsuki Noda, and Hitoshi Matsubara. A statistical perspective on the robocup simulator league: Progress and prospects. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.

382. Antonio Cisternino and Maria Simi. Layered reactive planning in the ialp team. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
383. Augusto Loureiro da Costa and Guilherme Bittencourt. From a concurrent architecture to a concurrent autonomous agents architecture. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
384. Fernando Fernandez and Daniel Borrajo. Vqql: Applying vector quantization to reinforcement learning. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
385. Bernhard Jung, Markus Oesker, and Heiko Hecht. Virtual robocup: Real-time 3d visualization of 2d soccer games. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
386. Kostiadis Kostas and Huosheng Hu. A multi-threaded approach to simulated soccer agents for the robocup competition. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
387. Itsuki Noda. Modular simulator: A draft of new simulator for robocup. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
388. Leonardo A. Scardua, Anna H. Reali Costa, and Jose Jaime da Cruz. Learning to behave by environment reinforcement. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
389. Paul Scerri and Johan Ydren. End-user specification of robocup teams. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
390. Atsushi Shinjoh and Shigeki Yoshida. Autonomous information indication system. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
391. Frieder Stolzenburg, Oliver Obst, Jan Murray, and Bjorn Bremer. Spatial agents implemented in a logical expressible language. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
392. Peter Stone and Manuela Veloso. Layered learning and flexible teamwork in robocup simulation agents. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.
393. Jan Wendler, Markus Hannebauer, Hans-Dieter Burkhard, Helmut Myritz, Gerd Sander, and Thomas Meinert. Bdi design principles and cooperative implementation in robocup. In Veloso, Pagello, and Kitano, editors, *RoboCup-99: Robot Soccer World Cup III (LNAI 1856)*. Springer-Verlag, 2000.

1998

394. Markus Hannebauer, Jan Wendler, Pascal Gugenberger, and Hans-Dieter Burkhard. Emergent Cooperation in a Virtual Soccer Environment. In Tim Lueth, Rüdiger Dillmann, Paolo Dario, and Heinz Wörn, editors, *Distributed Autonomous Robotic Systems (DARS) 3*, pages 341–350. Springer Verlag, 1998.
395. Jan Wendler and Mario Lenz. CBR for Dynamic Situation Assessment in an Agent-Oriented Setting. In D. Aha and J. Daniels, editors, *Proceedings of the AAAI-98 Workshop on Case-Based Reasoning Integrations*, Madison, USA, 1998.
396. Itsuki Noda and Ian Frank. Investigating the Complex with Virtual Soccer. In Jean-Claude Heudin, editor, *VW'98 Virtual Worlds (Proc. of First International Conference)*, pages 241–253. Springer, July 1998.
397. Oliver Obst, Jan Murray, Frieder Stolzenburg, and Björn Bremer. Towards deduction in RoboCup. In *Proceedings of the RoboCup Workshop during KI'98*, Bremen, 1998.
398. Nobuhiro Ito, Kouichi Nakagawa, Xiaoyong Du, and Naohiro Ishii. An Environmental Agent Model for Describing Soccer Players. In *Proceedings of Java-Based Intelligent Systems Workshop*, pages 73–85. PRICAI, 1998.
399. Kim Binsted and Sean Luke. Character design for soccer commentary. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
400. Hitoshi Matsubara, Ian Frank, Kumiko Tanaka-Ishii, Itsuki Noda, Hideyuki Nakashima, and Koiti Hashida. automatic soccer commentary and robocup. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
401. Dirk Voelz, Elisabeth Andre, Gerd Herzog, and Thomas Rist. Rocco: A robocup soccer commentator system. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
402. Peter Stone, Manuela Veloso, and Patrick Riley. The cmunited-98 champion simulator team. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
403. Silvia Coradeschi and Jacek Malec. How to make a challenging ai course enjoyable using the robocup soccer simulation system. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
404. Kazuaki Maeda, Akinori Kohketsu, and Tomoichi Takahashi. Ball-receiving skill dependent on centering in soccer simulation games. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.

405. Jan Lubbers and Roger R. Spaans. The priority/confidence model as a framework for soccer agents. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
406. Paul Scerri, Silvia Coradeschi, and Anders Torne. A user-oriented system for developing behavior-based agents. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
407. Tomoichi Takahashi and Tadashi Naruse. From play recognition to good plays detection—reviewing robocup-97 teams from logfile. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
408. Kurt Driessens, Nico Jacobs, Nathalie Cossement, Patrick Monsieurs, and Luc De Raedt. Inductive verification and validation of the kulrot robocup team. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
409. Christoph G. Jung. Layered, resource adaptive agents in the robocup simulation. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
410. Nobuhiro Ito, Kouichi Nakagawa, Xiaoyong Du, and Naohiro Ishii. A description-processing for soccer agents. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
411. Fausto Torterolo and Chaterine Garbay. A hybrid agent model, mixing short term and long term memory abilities: An application to robocup competition. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.
412. Peter Stone and Manuela Veloso. Team-partitioned, opaque-transition reinforcement learning. In Minoru Asadan and Hiroaki Kitano, editors, *RoboCup'98: Robot Soccer World Cup II*, number 1604 in Lecture Notes in Artificial Intelligence. Springer Verlag, 1999.

1997

413. Nobuhiro Ito, Takahiro Hotta, Tatsuya Hayashi, and Naohiro Ishii. AN ENVIRONMENTAL AGENT MODEL FOR OBJECTS WITH MULTIPLE ASPECTS. In F. Hara and K. Yoshida, editors, *Proceedings of International Symposium on SYSTEM LIFE*, pages 151–156. JSME, 1997.

1996

414. Mike Bowling, Peter Stone, and Manuela Veloso. Predictive Memory for an Inaccessible Environment. In *Proceedings of the IROS-96 Workshop on RoboCup*, pages 28–34, Osaka, Japan, November 1996.

415. Hitoshi Matsubara, Itsuki Noda, and Kazuo Hiraki. Learning of Cooperative Actions in Multiagent Systems – a case study of pass play in Soccer–. Proceedings SS-96-01, pp. 63–67, 1996 AAI Symposium, March 1996.